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REGULATIONS

FOR THE

EQUIPMENT OF THE REGULAR ARMY.

PART I.

1898.

LONDON:
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REGULATIONS

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EQUIPMENT OF THE REGULAR ARMY.

PART I.

1898.

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VICTORIA, R.I.

WHEREAS Our Principal Secretary of State for the War Department has submitted to Us consolidated and revised General Regulations for the Equipment of Our Army and the Armament of Our Works of Defence; and whereas We have been pleased to approve the same;

OUR WILL AND PLEASURE IS that these Regulations be the sole and standing authority on the matter herein treated of, excepting all matters relating to the equipment of such part of Our Army as may be stationed in Our Indian Empire; provided always, that Our Principal Secretary of State shall, until Our further pleasure be made known, have full power to make, with regard to the details of equipment, and to the general arrangements for equipment applicable in time of war, such additional Regulations, or modifications in the Regulations attached to this Our Warrant, as may be necessary in the interests of Our Service. The administration and interpretation of these Regulations shall likewise rest with Our Principal Secretary of State.

Our Warrant of the 25th of September, 1895, and the Regulations established thereby, are hereby cancelled.

Given at Our Court at Windsor, this 16th day of December, 1897, in the 61st year of Our Reign.

By Her Majesty's Command,

LANSDOWNE.

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DEFINITIONS.

N.B.—The following terms used in these Regulations will have the signification shown :—

Unit	Units are bodies of troops each under a separate Commanding Officer who is an Accountant.
Accountant	Any Officer who receives and holds Army Equipment, and renders to the War Office a ledger account of the same.
Commanding Officer....	The Officer Commanding any Unit.
Principal Ordnance Officer....	The Officer at the head of the Army Ordnance Department at the Royal Arsenal, Woolwich.
Chief Ordnance Officer	The Officer at the head of the Army Ordnance Department in any Military Command, and the Officer in Charge of the Central Small Arms Depôt, at Weedon.
Ordnance Officer	The Officer in charge of Stores.
Regimental Artificers	Non-commissioned Officers and Soldiers on the Regimental Establishment as Artificers, receiving pay as such, for the performance of special work.
Military Tradesmen	Tradesmen enlisted as Soldiers, and receiving pay as such, but available when required for employment in their trades, receiving extra working pay.

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ABBREVIATIONS.

A. & S.	Ammunition and Store.
B.L.	Breech-loading.
B.W.G.	British Wire Gauge.
C.I.	Cast-iron.
D.P.	Drill purposes.
F.G.	Fine Grain.
F.S.	Field Service.
G.S.	General Service.
L.G.	Large Grain.
L.S.	Land Service.
M.-E.	Martini-Enfield.
M.-H.	Martini-Henry.
M.-M.	Martini-Metford.
M.L.	Muzzle-loading.
M.L.-E.	Magazine Lee-Enfield.
M.L.-M.	Magazine Lee-Metford.
M.T.	Morris Tube.
N.P.	New Pattern.
O.P.	Old Pattern.
O.R.	Other Ranks.
P.	Pebble ($\frac{3}{4}$-inch cubical).
P.^{2}	Pebble ($1\frac{1}{2}$-inch cubical).
R. & F.	Rank and File.
R.B.L.	Rifled, Breech-loading.
R.F.G.	Rifle, Fine Grain.
R.L.G.	Rifle, Large Grain.
R.M.L.	Rifled, Muzzle-loading.
S.A.	Small-arm.
S.A.A.	Small-arm Ammunition.
S.S.	Staff Serjeants.
V.E.	Valise Equipment.
W.G.	Wire Gauge.
W.I.	Wrought-iron.
Wt.O.	Warrant Officer.

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PART 1.—GENERAL REGULATIONS.

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The amendments made in the Regulations of 1895, are denoted by a black line in the margin. As some typographical errors may have occurred in publication, it is requested that, should any be discovered, they may be at once pointed out, in writing, to the Under Secretary of State for War.]

REGULATIONS FOR THE EQUIPMENT OF THE REGULAR ARMY, 1898.

PART 1.—GENERAL REGULATIONS.

SECTION I.—DUTIES OF OFFICERS.

I.—INTRODUCTORY.

Strict adherence to regulations enjoined.

1. The following regulations for the equipment of the Regular Army and for the maintenance of the armaments of works, are promulgated for the information and guidance of officers concerned. The proportions of ammunition and stores, materials for repair, tables of duration, and details of equipment contained therein will be strictly adhered to. Regulations relating exclusively to artillery will be found in Part 2, Artillery Special Instructions and Details. No details of establishment of equipment for submarine mining, permanent telegraph, telephone and signal stations are given, special scales being authorised for each station concerned, but the general procedure as regards demand, supply, and disposal of such equipment will be as herein laid down.

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Definitions.

2. For definitions of the terms describing commanding and other officers in these Regulations *see* page iv, and for abbreviations *see* page v.

Nomenclature.

3. In describing stores in equipment ledgers, requisitions, &c., the designations and store charge divisions of the vocabulary issued by the War Office will be strictly followed. Articles not included in the vocabulary will be headed "not in vocabulary" and grouped under the several store charges to which, from the nature of the articles or their intended use, they would properly apply. They will also be described by drawings or otherwise, where requisite, in order to obviate the necessity of making further reference. In giving dimensions, feet and inches are always to be expressed in words.

Drawings.

Dimensions.

II.—DUTIES OF GENERAL OFFICERS COMMANDING.

General responsibility.

4. General Officers Commanding will keep themselves informed as to the condition and completeness of the armaments and equipments in their respective commands, and will satisfy themselves that the articles which would be drawn from the ordnance depôt in their districts on mobilisation are serviceable, complete, and conveniently stored for issue. The entire responsibility for the efficient custody and maintenance of mobilization stores rests with the General Officers Commanding Districts.

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Inspection of station equipment.

4A. General Officers Commanding will cause the station equipment in possession of units to be inspected twice yearly, in January and July, by a board of officers to be assembled by him, and will transmit the proceedings on Army Form G 1097, to the War Office. In the case of the station equipment of batteries of Royal Artillery, the board will be composed of the lieutenant-colonel commanding the division of artillery, the officer commanding the battery, and the chief ordnance officer.

Issues in excess of authorised proportions.

5. The General Officer Commanding will be responsible that equipment of all kinds is issued to the troops for service purposes, in accordance with the authorised proportions, but in cases in which it is found necessary that these should be exceeded, he will give authority in writing to the chief ordnance officer to provide for the requirements of the service according to circumstances..

Report of excess issues.

6. The General Officer Commanding will report full details of such excess issue, to the War Office in a quarterly report to be rendered on Army Form G 1056. Such report should state whether the issues are of a temporary nature on loan, or are to be considered as a permanent addition to an establishment.

Delay in supply.

7. In the event of any unnecessary delay occurring in the supply of equipment, the General Officer Commanding will report the circumstance, with the explanation of the chief ordnance officer, to the War Office.

III.—DUTIES OF COMMANDING OFFICERS.

Responsibility of commanding officers.

8. Commanding officers will be held directly responsible that their equipments, including stores for mobilization held on charge as station equipment, are in a serviceable condition, in proper working order, complete in all their details, and in the authorised proportions, unless otherwise specially ordered. They will make frequent inspections of the whole of the equipments of the men and horses under their command ; and when any defects are discovered therein, will at once take steps to have them remedied.

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In case of change of pattern, &c.

9. They will be held responsible, in the case of alterations of pattern, or of changes in the proportions in which articles forming their equipments are issued, that the necessary action is taken to provide for such changes.

9A. They will compare the quantities of mobilization stores when in their charge, as shown by the mobilization store tables of their respective units, with the remains of the stores shown at the end of their equipment ledgers on the 31st March in each year. A certificate will be furnished at the end of the ledger that this has been done, and a detail, with explanations, will be given of any discrepancies found.

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Alterations of articles of equipment forbidden.

10. Alterations of articles of equipment involving any departure from the sealed patterns, either for experiment or any other purpose, are strictly forbidden without the previous sanction of the War Office.

Regimental board on change of command.

11. On a change of command a regimental board will be assembled to take stock of the equipment and verify the ledger balance. Both the incoming and the outgoing officers, or their representatives, should be present and sign the proceedings, which will be certified in the form shown in Appendix I and accompany the regimental equipment ledger, on transmission of the latter as laid down in that appendix.

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12. In the case of a transfer of charge of the equipment of a sub-district in an artillery district, the verification of the stores in connection with the armaments by a board of officers, need not be carried out unless at the request of either of the officers concerned. Should such a request be made by either the officer handing over, or the one taking over charge, the officer commanding Royal Artillery will appoint a board of officers for the purpose. Should no board be assembled, the officer taking over charge will be held responsible for the correctness of the stores taken over by him, as shown by the balance on the 31st of the previous March, subject to the variation caused by subsequent duly vouched store transactions. On transfer of charge of armaments.

13. When deficiencies or damages are discovered on a transfer of the equipment and stores, the value of the articles deficient, or the cost of making good the damages, will be recovered from the officer giving over the command, unless he has been relieved of the responsibility by authority of the War Office. Where any loss, injury, or deterioration of equipment, other than personal, is clearly traceable to the neglect of a subordinate, the commanding officer who is liable may apply through the General Officer Commanding to the War Office to be relieved of the cost of replacing or repairing such equipment. In the case of personal equipment the usual steps will be taken to recover the cost of replacing or repairing. Deficiencies in equipments.

14. In order to facilitate the maintenance of the equipment reserves, commanding officers will at all times furnish the ordnance officers with such information as they may require regarding the state of the equipments in their charge. Information to Army Ordnance Department.

15. All communications connected with the supply of equipment, whether authorised by, or in excess of, regulation, will be addressed to the Chief Ordnance Officer, who will, if necessary, take the orders of the General Officer Commanding on the subject. Correspondence with Army Ordnance Department.

16. The commanding officer will bring to the notice of the General Officer Commanding any inconvenient delay in the supply of any articles of equipment. Delay in supply.

SECTION II.—GENERAL SUPPLY OF EQUIPMENT.

I.—ESTIMATES FOR EQUIPMENT.

17. Officers to whom stores are supplied may be required to furnish annually to the Army Ordnance Department estimates of their probable requirements for the ensuing year. The dates by which estimates are to be sent in will be notified in local orders. Estimates will be prepared with the greatest care, in order that the Army Ordnance Department may accurately anticipate the wants of the service. Annual estimates. Care in framing.

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Services for which annual estimates are not required.

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18. As a general rule, annual estimates will not be required for the supply of articles necessary to maintain the efficiency of the equipments of men and horses, or of the equipments of the field artillery, units of Royal Engineers, and mounted companies of the Army Service Corps; but officers who are likely to require renewal or exchange of any considerable part of their equipment, will give early intimation of the same to the chief ordnance officer.

Information in all store estimates.

19. Estimates will be prepared in duplicate, care being taken that the several columns are duly completed. They will show the data on which they are prepared, the cost, the annual consumption, the total numbers on hand of the stores estimated for and the purposes for which they are required; they will also show the cost of any article proposed to be made by military tradesmen, or to be procured locally where there is no representative of the Army Ordnance Department; and they will contain references to any special applications and orders respecting the articles estimated for.

Estimates in excess of regulation.

20. Stores required in excess of the regulated proportions, or of a description different from the authorised patterns, will not be inserted in the estimates unless previous sanction has been given for such supplies; and such entries must be supported by a reference to the authority in each case.

Artillery.

21. Further and more detailed instructions for the preparation of the Royal Artillery estimates will be found in Part 2, Artillery Special Instructions and Details.

II.—REQUISITIONS FOR EQUIPMENT.

Requisitions to be made direct on chief ordnance officer.

Preparation of.

22. Officers who are direct accountants with the War Office for any portion of the service equipments will put forward requisitions for munitions of war, stores, and materials, to maintain the equipments for which they severally account, as well as for those required for the training and service of their units generally. The requisitions will be prepared on the authorised forms, in strict accordance with the details for the various corps laid down in Part 2, and the instructions in paragraph 5, pages iv and v of Part 1 of the priced Vocabulary of Stores, 1893. The authority under which the stores are demanded will be quoted in the column of remarks. Requisitions will be sent direct to the chief ordnance officer by the officer requiring the stores on the dates given in paragraph 24. When stores, ammunition, or equipment are demanded on payment, the requisition will be endorsed to that effect in red ink.

V

Norfolk Cadets.

26

Mobilization Store Tables.

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22A. The equipment of units laid down in the mobilisation store tables (Army Forms G 1098 and 1099) will regulate the peace as well as the mobilisation establishments. In framing demands for articles on the peace establishment, commanding officers will refer to the paragraph or table of the Equipment or other Regulations, which authorises the issue of the peace equipment applied for, but the demand will in all cases be in accordance with the establishment of equipment laid down in the latest issues of the mobilisation store tables.

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Armourer not available for regimental marking.

23. Where the services of an armourer are not available for marking arms regimentally, requisitions for arms will show the corps marks and numbers that the arms should receive, in order that they may be marked by the Army Ordnance Department before issue.

Requisitions to be made periodically.

Exceptional requisitions.

24. Requisitions for equipment, for materials for its preservation, and for veterinary stores (*see* paragraph 264), will, except in cases of emergency, be made quarterly, on the 1st March, 1st June, 1st September, and 1st December. An exception as regards veterinary stores will, however, be made at Woolwich, where the requirements of the troops will be provided for by the district veterinary officer; and the following classes of stores will also be treated exceptionally :—materials for the repair of arms (including rifle oil), accoutrements, harness and saddlery, and artificers' tools, which will be demanded annually, on the 1st March (except under the circumstances mentioned in paragraph 366) ; stable necessaries, paint, and materials for the repair of carriages, which will be demanded on the 1st September; and practice and exercise ammunition as laid down in Part 1, Section VII, and Part 2. Camp equipment will be demanded when required, under Part 1, Section X.

51 Devonport 6109

54 Gen. No. 6967

Articles not to be replaced unless thoroughly unserviceable.

25. Requisition will not be made for equipment to replace articles deemed unserviceable, until the commanding officer has satisfied himself that they are thoroughly unserviceable or cannot be repaired by the means at his disposal, notwithstanding that such articles may have already been in use for the period of duration assigned to them under Part 1, Section XVIII. Special authority will be required to support the exchange of any equipment still serviceable, or capable of being repaired regimentally.

On change of pattern.

26. On notification of a change of pattern, involving the immediate withdrawal of that in use, requisitions will be made without delay for the new equipment; but a commanding officer is not entitled to demand any article from store on account of any preference which he may have for a particular pattern, as in time of peace it will sometimes be necessary to issue articles which have been longest in store, irrespective of pattern.

Equipment to be completed before going on service abroad.

27. When units are placed under orders for service abroad, commanding officers will at once make requisition upon the chief ordnance officer, for all articles which may be required to complete the equipments of their corps, according to the scales authorised for the particular service.

Regimental transport.

28. When regimental transport does not accompany the unit on embarkation, all stores appertaining thereto, as shown in the corps details, will be omitted from the requisitions, and any article of this nature that may be in possession will be dealt with as laid down in paragraph 140.

From officers commanding detachments, who are not accountants.

29. In the event of officers commanding regimental detachments who are not accountants, requiring articles of fixed equipment, they will prepare and forward the requisitions for the same to the officers commanding their respective units for signature, before sending them to the Army Ordnance Department. The issue will then be made, and will be an issue to the officer commanding the unit, a temporary receipt being taken by the ordnance officer from the officer in command of the detachment concerned, until the usual

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receipt and issue vouchers have been passed between the ordnance officer and the head-quarters of the unit accounting for the stores. Should the articles be urgently required, the ordnance officer will make the issue at once, and the officer commanding the detachment will be responsible for the stores until he has procured a covering requisition from his commanding officer, and the vouchers have been passed.

Intermediate requisitions objectionable.

30. With a view to obviating the necessity for intermediate demands, officers commanding will cause a careful inspection of the equipment to be made at the time of the preparation of the quarterly requisitions. To meet immediate and unforeseen requirements, spare articles of equipment are supplied. Where accoutrements are lost, as for example through desertion, or arms are damaged to such an extent that the armourer cannot repair them, the wants can be temporarily met by using the equipment of men who are for the time non-effective.

Issues on payment.

31. Articles of store, ammunition excepted, are not issuable to commanding or other officers on payment, in time of peace, except by order of the War Office.

Mode of repayment.

54
Gen. No.
6370

32. The value of stores issued on repayment, and of ammunition under paragraphs 164, 168, and 169, will be recovered by the district paymaster; priced vouchers on Woolwich Form 1, being furnished by the Principal Ordnance Officer, Woolwich, and on Army Form G 982, by other ordnance officers making the issue. The officers commanding corps to whom issues are made will forward the vouchers to their district paymasters, so that it may be shown where the value is credited, before returning them to the Army Ordnance Department.

Misappropriation of stores.

33. Stores for maintaining equipments, are not to be appropriated to other purposes without special authority, obtained through the chief ordnance officer.

Troops to draw their own stores.

34. When stores have been reported as ready for issue, the troops will, if within a reasonable distance from the store depôt, arrange for their conveyance.

Cancelled.
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Equipt.
1816

35.

36. The supply of all equipment, except ammunition, due to units proceeding from one district to another will be dealt with in the Army Ordnance Regulations.

Equipment left behind on change of station by R.E.

37. When field companies of the Royal Engineers exchange stations, a portion of the equipment will be left behind by the out-going company and taken over by the in-coming company at each station. An officer of each company will proceed, within a week in advance, to the new station, to take over the stores to be left behind by the out-going company. The transfer of stores will be carried out in the manner laid down in paragraph 90.

A list of the stores that will usually be transferred by field companies is given in Part 2, Section X.

Forms for requisitions.

38. When the requisitions for camp equipment or materials for repair are large, the equipment forms with printed details will be used; but when small, the blank forms specially provided for such cases, Army Forms G 997 and G 1027, will be rendered.

Tools.

39. Tools for mounted services are issued to units, and held on charge by them in complete chests, and will be so demanded when required.

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40. When small quantities of tools are required to be exchanged as unserviceable, they will be shown in detail in the requisition, for which purpose, either Army Form G 997, or a manuscript requisition may be used. Exchange of tools.

41. All vehicles of service pattern, whether in store or as equipment in possession of troops, should at all times be complete with the straps and other articles appertaining to them, as laid down in the Table of Accessories, component and spare parts. These articles should be in the custody of the officer who has the vehicles in charge. Straps, &c., for vehicles.

54
Gen. No.
6295

III.—RECEIPT AND INSPECTION OF EQUIPMENT.

42. When equipment is received by the troops the officers or others receiving it will, before giving a receipt to the carrier, ascertain that the various packages are in good order and condition. Should any appear to have been damaged in transit, either by wet or otherwise, or to have been tampered with, the circumstances will be recorded on the bill of lading or carrier's note, and pointed out to the person conveying the stores, the packages being opened, if necessary, in his presence. Inspections of packages on receipt from carriers.

43. The stores will be examined, as soon as possible after receipt, in the presence of not less than two officers, one being the officer responsible for the equipment, or an officer deputed by him. Inspection.

44. All packages will be weighed before being opened, and the ascertained weight compared with that marked on the outside. Should these weights differ in any instance, the contents will be at once counted, and compared with the numbers given on the packing note which each package should contain. Weighing of stores.

45. Stores received by number and weight will be counted and weighed, in order to ascertain whether they are correct in both respects. Number and weight.

46. In reporting any discrepancy, the fullest information will be given, all numbers and weights, and any marks upon the packages giving evidence of their having been tampered with, being carefully recorded. The packages, with their notes and all wrappers, will be retained until the inquiry closes. Discrepancy.

47. The equipment will be carefully inspected, to determine that the articles delivered agree with the particulars in the vouchers, and that they are correct in point of quality and pattern. Inspection of equipment.

48. Should the above precautions be omitted, the officer receiving the stores will render himself liable for any discrepancies. Receiving officer's liability.

49. The hermetically closed cases in which fuzes, tubes, and certain other articles are issued, will not be opened. These cases with their contents, as well as packages containing small-arm ammunition and gunpowder, will be taken on charge unopened. Any defects or discrepancies which may be discovered when the stores are subsequently inspected or used, will be at once reported, and all names, dates, and marks upon the cases will be quoted. Ammunition and explosive stores in hermetically closed cases.

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Objections to equipment.

50. Objections that may arise on the ground of equipment being of an inferior quality or of an obsolete pattern, or for any other cause, will, if possible, be made by the commanding officer before the articles are taken on charge, as after the receipt has been signed the responsibility for the condition of the stores will devolve upon him. Serviceable articles are not to be objected to on account of their being part worn.

Report of discrepancies.

51. Should any discrepancies be discovered, or any articles be found damaged or unsuitable, the commanding officer, after endeavouring to ascertain the cause of loss or damage, will bring the matter to the notice of the chief ordnance officer of the district from which the issue had been made.

Report to War Office.
51
Chester
1470

51A. In all cases in which the reports of officers commanding, or others, bring to notice inferiority of quality or pattern, the matter will be reported to the War Office if the General Officer Commanding considers further action necessary.

Commanding Officers responsible for safe custody of stores not taken on charge.

52. A commanding officer in receipt of articles of equipment which are not brought on charge, will, pending the result of a report on their condition, be held responsible for their safe custody until a decision has been given as to their disposal, when he will either take them on charge or return them to store, as may be ordered. He will also be held responsible for the immediate return to store of any equipment issued to him, which, in cases of emergency, he may be unable to take on charge. Should he fail to carry out these instructions, he will be liable for any loss that may ensue.

IV.—RETURN OF EQUIPMENT INTO STORE.

Application to return equipment.

53. Whenever it becomes necessary or advisable to return equipments into store, except such as have been replaced on requisition, commanding officers will make application to the chief ordnance officer to receive them, stating their description, number, the time they have been in use, and the reasons for returning them into store; the authority, if any, should also be quoted.

57
Dublin
5153

As regards the exchange, or withdrawal of ordnance, carriages, or slides at outlying stations, which have been condemned as unserviceable, or are known to be of obsolete pattern and no longer required, a special reference will be made to the War Office for instructions as to their final disposal. The report will state the probable cost of carriage to the nearest port or ordnance depôt at which War Department vessels call, and, also, the probable amount the stores would realize if disposed of locally after being broken up or rendered useless.

Articles not to be replaced till unserviceable.

54. Articles of equipment will not be returned to store on the ground that they have been in use for the prescribed period of duration. They will continue in use until unserviceable, unless special authority has been given for their exchange.

Vouchers and receipts for returned stores.

55. Commanding officers when returning equipments will forward to the Army Ordnance Department receipt and issue vouchers properly filled in on the prescribed forms, and in conformity with the directions in Appendix I., and the instructions contained in paragraph 5, pages iv. and v. of Part I of the Priced Vocabulary of Stores, 1893. The issue voucher will be signed by the ordnance officer receiving the stores, and returned to the officer handing them over.

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Vouchers for stores returned from a distance.

56. When stores are returned from a distance, receipt and issue vouchers will be sent by post, on the same day that the stores are despatched to the chief ordnance officer to whom they are consigned, and the following instructions will be observed :—

a. The date and number of the order directing the return of the stores will be inserted in the headings of both vouchers, and a corresponding date and number will be conspicuously marked on the outside of each case or package, so as to enable the consignee to identify them immediately on receipt. Each case, bale, or package will be weighed, and the weight marked upon it.

b. A memorandum will be entered at the foot of the detailed list on the receipt voucher, specifying the date on which the articles were despatched, the name or designation of the carrier, and the mode of transit.

c. The receipt voucher will be signed by the consignor ; and the issue voucher, duly signed by the consignee, will be returned as soon as practicable after the stores have been received.

O. C. to arrange for return of stores.

57. Commanding officers will make their own arrangements, as in the case of issues (*see* paragraphs 34 and 58), for the return of unserviceable and surplus equipments into store in camp and garrison.

Articles improperly returned.

58. Issues of regimental equipment, such as arms, accoutrements, harness and saddlery, to replace similar unserviceable articles in possession of a unit quartered at a station where there is an ordnance depôt from which the supply of the new will be received, will not be made until the unserviceable articles have been returned to the Army Ordnance Department, inspected, and condemned. The day and hour for exchange should be arranged for by communication between the ordnance officer and the officer commanding.

When the unit is quartered at another station the new articles will be supplied prior to the return of the unserviceable, and the officer commanding will, upon receipt thereof, immediately return the unserviceable, and will not cause any corps marks to be placed upon the new equipment until he receives notification from the ordnance officer that the articles returned are considered to be in a state for condemnation. The inspection and notification by the Army Ordnance Department will be carried out immediately the stores are received. Should any of the equipment so returned be found, on receipt by the Army Ordnance Department, to be not unserviceable, or still capable of repair by regimental artificers, the chief ordnance officer will call upon the officer commanding to furnish an explanation for the information of the General Officer Commanding, who will decide whether the troops should be held liable, or a board of officers be assembled to investigate the matter. If it is decided that the articles have been improperly returned they will be sent back to the unit and the new articles issued returned to the Army Ordnance Department, the cost of carriage unnecessarily incurred being defrayed by the officer commanding the unit concerned.

Articles unserviceable from unfair usage.

59. Should it be considered that any articles returned as unserviceable have become so from unfair usage while in possession of the troops, the chief ordnance officer will also bring the same to the notice of the General Officer Commanding who will determine, by means of investigation of a board of officers, or otherwise, whether the troops are liable.

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Surplus equipment.

60. No reduction in any authorised equipment will be made without the sanction of the War Office. If, owing to an authorised reduction, or any other cause, officers who are accountants have on charge surplus stores or equipments not likely to be again required within a short period, the General Officer Commanding will decide whether they shall be retained or returned to store. If a reduction in the establishment of men or horses be authorised, the stores to be disposed of will be the actual complete sets of equipment in use by the men or horses drafted to other corps or others dealt with as supernumerary.

Return of stores by outgoing unit.

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Devonport
6109

61. Commanding officers will, previous to change of station, obtain authority from General Officers Commanding to return to the Army Ordnance Department such stores of a bulky nature as they can temporarily dispense with, and, on receiving such authority, will apply to the ordnance officer receiving them for a certificate of their quantity and condition. They will then be enabled, on reaching their destination, to draw from the Army Ordnance Department, on this certificate, an equivalent supply if necessary.

Stores when to be taken with outgoing unit.

62. When it is not advisable to return these stores, as for example, should there be no ordnance depôt at the station to which the unit is proceeding whence a fresh supply could be obtained, they will be taken with the corps, and public conveyance will be provided; but if this be not practicable and expenses are incurred for carriage from one station to another, the charge must be supported by a list of the stores, and a certificate from an officer of the Army Service Corps that army transport could not be provided.

Return of stores used locally.

63. All equipments issued to meet the purely local requirements of a station will be returned to store by outgoing units, unless they are required to be handed over to the incoming unit, when the transfer will be effected through the Army Ordnance Department.

Return of small-arm ammunition by troops on change of station.

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1812

64. Except in the case of a mobilisation, the small-arm ammunition in charge of troops, whether service or practice ammunition, will be returned into store previous to their departure from a station, with the exception of a sufficient quantity to provide the guards and escorts with 20 rounds for each man. If no ordnance depôt exists at the station, it will be handed over to an officer of the Army Ordnance Department deputed to receive it, who will at once note thereon the condition in which it was received by him. Care will be taken that the service and practice ammunition are shown separately on the vouchers. The officer who gives over the ammunition will be furnished with a proper receipt, which will be sufficient authority for the unit to draw a similar quantity at the new station. The ammunition given into store in boxes with unopened linings will be available for re-issue to other units, and cannot be objected to.

Stores issued on loan to be returned when no longer required.

65. When stores are issued on temporary loan from the Army Ordnance Department (as for instance, for the service of moving ordnance on re-armament), the commanding officer to whom they are lent will be held responsible for returning them as soon as the object for which they have been issued has been accomplished.

Half-yearly inquiry.

66. In order to ensure that stores issued on temporary loan are not lost sight of, and to enable any necessary subsequent disposition of the stores to be arranged, the chief ordnance officer will ascertain at

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half-yearly intervals, by inquiry, the date of the probable return to store of the articles. In such cases where the stores have been supplied specially from Woolwich, the information, when obtained, will be reported to the principal ordnance officer.

Explosive stores and matches.

67. The utmost vigilance is required on the part of officers returning stores, in order to guard against explosive stores being returned into ordinary store depôts, instead of into the magazines, as well as to preclude the possibility of lucifer or other matches, iron nails, &c., being left among stores of any kind.

Return of empty cases and packages.

68. Commanding officers are responsible that all empty chests, cases, barrels, and cylinders, received with equipment of any kind, are handed over as soon as they can be dispensed with to the Army Ordnance Department; and, if possible, without cost to the public.

Empty ammunition packages to be examined.

69. All empty ammunition or powder barrels, or packages, will be most carefully examined to see that they are free from iron tacks in the head, and grit and dirt on the staves, before being returned into store.

Carrier's note to accompany stores sent by carrier.

70. When stores are returned by carrier, a carrier's note, Army Form G 980, detailing the number, description, and weight of packages, bundles, and loose articles, and the number of articles contained in each bundle, will be delivered to the carrier. For explosive stores and those conveyed at owner's risk rates by railway in Great Britain, the special forms supplied by the railway companies will be used in lieu of Army Form G 980 (*see* Allowance Regulations).

Inventory in each package.

70A. When stores are returned into store in packages, an inventory, on Army Form G 1028, of the contents, signed by the packer, and also, if practicable, by the person witnessing the packing, will be placed in each package.

Convoy notes to be given to the officer commanding a convoy.

71. When stores are forwarded by convoy or under escort, convoy notes, Army Book 158, will be delivered to the officer commanding the convoy or escort, or to the conductor, and the following course will be observed:—

Convoy notes to be prepared in triplicate.

(*a*) The officer in command of the escort, or the conductor, will satisfy himself that the stores agree with the account given to him, in order that there may not be any subsequent questions as to the correctness of the convoy notes, three of which will be filled up. These will be signed by the officer despatching the stores, and a receipt will be taken on one of them from the officer commanding the escort or from the conductor. The receipted note will be retained by the consignor, and the other two will be carried by the officer commanding the escort or by the conductor to the consignee. One of these will be receipted, and returned to the officer or conductor, and the other kept by the consignee. The day and hour of departure will be inserted upon the convoy notes by the consignor, who will forward the proper issue voucher for the signature of the consignee. In forwarding ammunition it will always be kept separate from other stores (*see* paragraphs 184 to 197).

Convoy notes, &c., for stores delivered into store.

(*b*) When stores are received from troops, the ordnance officer will demand from the officer in charge of the escort, or from the conductor, the convoy notes, or other receipt vouchers, and having found the articles to be correct, he will return one copy receipted to the officer or conductor, forwarding the usual receipts to the consignor as soon as possible. Should, however, the regular receipt

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vouchers not be forthcoming, the stores will nevertheless be received; and the ordnance officer will report the omission to the consignor, to whom he will at the same time forward a receipt for the stores actually received.

Deficiency or loss of stores.

(c) When the stores do not agree with the convoy notes, the ordnance officer will inquire into the cause of disagreement. If it appears to arise from negligence or fraud, such measures will be taken as may be requisite in order that the offender may not escape punishment. If it appears to arise from just and fair causes, the ordnance officer will obtain a certificate of any such deficiency, damage, or loss, before the officer in command of the escort or the conductor can be discharged. Should a court of inquiry be necessary, the chief ordnance officer will apply for one to the General Officer Commanding.

Return of cartridge cases. A.O 174. 1896.

72. The cases of all small-arm ball and ·303-in. solid case blank cartridges supplied gratuitously, will be brought on charge by certificate and returned each year to the ordnance stations from which they were issued, to the extent of at least a weight equal to 90 per cent. of the ball, and 50 per cent. of the blank, expended during the year. The cases will be brought on charge by weight and not by number, the weights given below for 1,000 cases being taken as the basis on which the weights to be returned shall be calculated; any deficiency in these weights will be charged for at the following rates:—

Description.	Weight per 1,000 cases.	Price.
	lbs.	*s.* *d.*
Ball { ·303-in. (including short-range practice cartridges)	23	5 4
Blank, ·303-in., solid case	23	5 4

Value of to be refunded.

The value of the empty cases of cartridges obtained on payment will be refunded at the above rates to the officer who purchased them on his returning them to store. The number and date of the ordnance voucher on which the cartridges were received should be quoted on the pay-list voucher of the officer charging the value of the empty cases.

Mode of return to store. A.O. 174. 1896.

The cases will be returned to store in the empty ammunition packages, not oftener than once a quarter, and officers commanding will not return a less weight than that representing 1,000 cases, except in the last quarter of the year, when the outstanding balance, whatever it may be, will be sent in. The cases are expected to be in good condition when returned, care being taken that grit and dirt are removed as far as possible beforehand; and the greatest vigilance should be exercised in packing cases for return into store, to prevent any filled cartridges being accidentally sent with them, as any carelessness in this respect might lead to serious consequences.

Minimum quantity to be returned to store.

Empty small-arm cartridge cases will be taken on charge by certificate receipt vouchers to the extent, at least, of the percentages above laid down, and will be accounted for as returned to store, or as paid for if not forthcoming in the proper proportions.

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V.—ANNUAL INSPECTIONS, BOARDS OF SURVEY AND COURTS OF INQUIRY.

Joint inspection by O.C.R.A., District Engineer, and C.O.O.

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8193

73. The Officer Commanding Royal Artillery, the District Engineer, and the chief ordnance officer, will at least once a year, or whenever necessary, make a joint inspection of works, magazines, stores, workshops, &c., of all their departments, in order that each officer may have an opportunity of calling special attention to his requirements on the spot. When circumstances make it appear advisable, the officer or officers in local command or charge may be delegated to carry out this inspection. Advantage should be taken of this inspection to consider and discuss on the spot the requirements of the defence and the manner in which they should be met.

Boards for condemnation of stores.

74. Condemnations of stores must be supported by proceedings of garrison boards where boards are requisite. The proceedings of regimental boards, except as provided for under paragraph 43, cannot be recognised.

Full explanation to be given.

75. Articles of equipment which may become unserviceable, owing to accident or otherwise, before the expiration of the period fixed for their duration, are not to be written off charge, nor is the loss to be borne by the public, unless the reason for the article having become unserviceable is fully set forth.

Course to be followed when losses, &c., occur.

76. When stores or equipment of any kind are lost, destroyed, or injured, and it is a matter for consideration on whom the expense of replacing or repairing them should fall, the course laid down in the Queen's Regulations, as regards expense stores, will be followed.

Decision of G.O.C. or War Office to be attached to requisition.

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Equipt.
1726

77. The original report will be forwarded to the chief ordnance officer for submission to the General Officer Commanding, and will be accompanied by Army Form G 998, duly filled in, and where stores are required to be replaced a copy of the decision of the General Officer Commanding, or of the War Office, as the case may be, will be attached to the requisition upon the Army Ordnance Department for the replacement of the stores.

Reports of commanding officers, and courts of inquiry.

78. Reports of commanding officers referred to in the preceding paragraph, and proceedings of courts of inquiry, when they refer to arms, must be confined to arms, and must not include reports on other equipment. The number on the barrel, as well as the regimental number of the arm, will be recorded therein (*see* paragraph 117).

Directions as to sending damaged arms to C.I.S.A.

57
Gen. No.
4651

79. When a damaged arm or barrel (*see* paragraph 343A) is sent to the chief inspector of small arms for special report, or assessment of damages, a label stating the circumstances and giving the reference number and date of any War Office orders, or proceedings of courts of inquiry, will be attached to the arm or barrel for identification; and a copy of the decision, if any, of the general officer commanding regarding it, together with a copy of Army Form G 998, will be attached to the vouchers when forwarding the arm or barrel.

An ordnance officer to be a member of the court of inquiry.

80. If there be an officer of the Army Ordnance Department available who is not the chief ordnance officer, he will serve as a member of courts of inquiry, where necessary, under the foregoing instructions. The proceedings of such courts will be transmitted in duplicate by the president, direct to the chief ordnance

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officer, who will submit them, with his views, to the General Officer Commanding. After the General Officer Commanding has recorded his decision the chief ordnance officer will send one copy to the officer commanding the corps concerned, to serve as his authority to write off the stores or demand new articles to replace them.

Losses incurred by R. in moving heavy stores.

81. If the loss or damage has occurred when the Royal Artillery have been employed in moving heavy stores, the officer in charge of the operation should, in giving evidence, produce a statement showing distinctly the materials used, their actual dimensions, the strain calculated to be borne by them, the actual weight to be lifted, the distance through which the stores are to be lifted, vertically or horizontally, and, in the case of sheers, the angle of inclination.

Stores of a technical nature.

82. When the stores forming the subject of inquiry are of a special or technical nature, or peculiar to the Royal Artillery, Royal Engineers, or any particular service, the written opinion of the local head of the department concerned should be taken before the matter is finally dealt with by the General Officer Commanding, and such opinion will form part of the proceedings forwarded to the War Office in cases where this is necessary in accordance with the instructions laid down in the Queen's Regulations dealing with these subjects.

Surveys on equipments of troops proceeding to or returning from India.

83. Surveys in the United Kingdom and the Channel Islands on the equipments of troops proceeding to or returning from India, will be held by officers acting on behalf of the Secretary of State for War and the Secretary of State for India respectively. Instructions as to the mode in which the surveys will be carried out will be found in Appendix II.

VI.—EQUIPMENT ACCOUNTS AND CLAIMS AGAINST CORPS.

Duty of officers to account.

84. It is the duty of every officer receiving any equipment, service ammunition, or money for the purchase of equipment, to keep and render accurate accounts thereof, and until these accounts have been examined and allowed, he will not cease to be responsible. He will, therefore, be careful to obtain receipts on the proper Army Forms for all articles leaving his charge.

Regimental and staff ledgers.

85. Accountants will record in equipment ledgers all transactions connected with ammunition and stores, except as provided for in paragraphs 86 and 219. Detailed instructions for keeping these ledgers are given in Appendix I. Stores for submarine mining and for permanent military telegraph, telephone and signal stations will be accounted for, when in the custody of the Royal Engineers, as laid down in the Regulations for Engineer Services.

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Gen. No.
6483

Materials for repairs, &c. Packages.

86. Materials for repair, and other consumable articles (except ammunition) drawn upon regulated scale will not be taken on charge in the equipment ledgers; but any quantities remaining unused at the end of the year will be shown as in possession in the requisition for the next year's supply. Packages will be accounted for.

Ammunition.

87. Ammunition, unless issued on payment, will be taken on charge in equipment ledgers. Quantities drawn for consumption will, as expended, be written off charge by quarterly expense

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vouchers, signed by the commanding officer. On these vouchers will be given full particulars of the numbers of men, &c., and the paragraphs of regulation or authorised scales of expenditure covering the issues.

Articles chargeable to troops and replaced.

88. Articles required to replace stores lost or rendered unserviceable, and chargeable against the troops, will be demanded quarterly in accordance with paragraph 24; the unserviceable articles will be returned to the Army Ordnance Department, and the deficiencies written off charge on Army Form P 1925 at the end of each month. The value of the lost, or unserviceable stores (*see* paragraphs 95 and 96) will be credited to the public in the pay list on Army Form P 1963. The equipment issue voucher for the old stores struck off charge, will give a direct reference to this credit, and the requisition for stores in replacement will quote the equipment issue voucher.

54 Gen. No. 6900

Articles replaced and not charged to troops.

89. When stores on equipment ledger charge are condemned by proper authority as unfit for further service, or are lost or damaged through no fault of the troops, the dates and registration numbers of reports of boards of survey or other authority will be quoted upon the equipment issue voucher by which they are struck off charge. The reports of boards of survey or other authority will in every case be transmitted to the ordnance officer in support of the requisition when new stores are required, and will be attached to the issue voucher of the ordnance account from which they are supplied. In cases where lost stores are not required to be replaced, the proceedings of the court of inquiry will be attached to the expense voucher by which the articles are written off charge in the equipment account.

Transfer of stores from one charge to another.

90. No articles of equipment will be transferred from one equipment ledger charge to another except as allowed by regulation, or under authority of the War Office at home stations, or at stations abroad under that of the General Officer Commanding obtained through the chief ordnance officer. Such transfers will be supported by vouchers upon which the authority for the transfer should be quoted. When either of the officers concerned desires that an ordnance officer should be present at the transfer, one will be directed to attend, if available, on application. The above does not refer to transfers of equipment from one commanding officer to another on a change of command, which are governed by paragraph 11, or to transfers of submarine mining equipment between the store and vessels ledgers (Army Books 247 and 19).

54 Gen. No. 6483

Custody of arms and accoutrements of army reserve.

91. Officers commanding regimental districts will be held responsible for the care and safe custody of such arms and accoutrements as may be kept in store at regimental depôts for issue to the army reserve. These stores will not under any circumstances be taken into use without previous authority from the War Office; and will be accounted for in separate columns of the equipment ledger under the head of "reserve."

DP. arms and arms for aiming tubes.

92. The unserviceable arms issued for drill purposes will be accounted for in the equipment ledgers, in a separate column, headed "rifles (or "carbines), for drill only," and the arms for aiming tubes in a separate column, headed "rifles (or "carbines), for aiming tubes only."

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Equipment accounts of detachments.

38407 Equipt. 1779

93. Officers commanding the following detachments will become direct accountants for the equipment of their detachments (on the formation of a detachment the equipment will be transferred by voucher, and the new account opened under the orders of the General Officer Commanding, who will report to the War Office the circumstances rendering the opening of a fresh account necessary) :—

Cavalry depôts. Detachments left behind.

(*a.*) Depôts of cavalry regiments in the colonies and Egypt.

(*b.*) Detachments left behind in quarters by units proceeding on active service. In such cases the equipment of each detachment will be accounted for in a separate ledger, whether the detachments remain independent, are attached to units, or are formed into provisional battalions, except only on the absorption of a detachment into its territorial depôt or other unit, when the equipment will be transferred to the ledger of that depôt or unit, as directed in Appendix I. The marking on the equipment of men left behind will not be altered unless they are permanently transferred.

Detachments serving abroad.

(*c.*) Detachments serving abroad, and separated from their headquarters for lengthened periods, and by considerable distances.

Detachments of R.E.

(*d.*) Detachments of Royal Engineers, serving abroad belonging to companies serving at home, or *vice versâ*, until the detachments rejoin their companies. Detachments of Royal Engineers serving at home belonging to companies serving at home, will be governed by paragraph 37.

Detachments of miscellaneous corps.

(*e.*) Detachments of the Army Service Corps, Medical Staff Corps, and Army Ordnance Corps stationed abroad.

Marking additional equipment.

94. The marking of additional equipment issued to detachments will be governed by the instructions laid down in paragraph 269.

Charges for loss or damage to personal equipment.

95. A soldier, who by neglect or culpable mismanagement, loses or renders unserviceable any article of his personal equipment, will not be held liable for the full value of the article, but only for the proportionate value for the unexpired period of wear ; no charge will, however, be reduced below a quarter of the full value, and in the case of any one arm no charge will exceed 40*s.*, unless otherwise determined by sentence of a court martial. Twelve years will be taken as the period of wear for any article for which no period has been laid down ; and the unexpired period will be calculated in half-years, any period of less than six months being charged against the soldier as a full half-year. The rates upon which the calculations will be made are those laid down in the priced vocabulary of stores.

Charges for loss or damage to general equipment.

96. In the case of culpable loss of equipment, other than personal equipment in possession of a soldier, the proportionate value only will be chargeable, if it can be ascertained ; if not, the full value will be chargeable. Any evidence as to the proportionate value will be recorded in the proceedings of the court of inquiry or other authority which investigates the loss.

Culpable repairable damage.

97. In the case of culpable repairable damage of equipment, whether personal or otherwise, the actual cost of repair (including both wages and materials or components) will be charged.

7669 7795

In the case of small arms, if the damage consists of slight rust inside the barrel, the arms affected will be thoroughly cleaned by the armourer-serjeant at a charge of 4*d.* each.

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No charge will be made if, in the opinion of the commanding officer, the rust was caused under circumstances beyond the control of the soldier responsible for the arm.

Authority for charges on account of equipment.

98. The authority of the chief ordnance officer will be sufficient for any charge in the pay lists on account of equipment. When officers against whom claims are made have no cash account with the War Office, payment will be made by them to the district paymaster.

Losses through desertion.

99. When articles are ascertained to have been lost by desertion they will be struck off charge on Army Form P 1925, supported by a certified copy of the proceedings of the court of inquiry (Army Form B 115), held under Section 72 of the Army Act.

Articles brought back on a deserter rejoining.

100. In the event of a deserter, on rejoining, being in possession of any of the articles found deficient on his desertion, the articles brought back by him will be taken on charge in the equipment ledger.

Articles deficient on deserter rejoining.

101. On a deserter rejoining, and being sentenced by court martial, or ordered by the competent military authority dispensing with the trial to be placed under stoppages for the value of any articles found deficient on desertion, such articles will be retaken on charge and struck off again as deficiencies on Army Form P 1925, showing where credit will be found, in accordance with paragraph 102.

Returns of stoppages.

102. At the end of each month a return will be prepared on Army Form P 1963, showing the names of, and the amounts recoverable from, any soldiers liable to make good the cost of replacing or repairing articles of equipment under paragraphs 95 to 101. The stoppage returns will be made out by squadrons, batteries, or companies. In the cavalry and infantry the amount due from each squadron or company will appear in regimental orders for the month in which the stoppages are recoverable from the soldier, and will be credited in the pay list for the month, the returns being annexed as vouchers.

Losses through glandered horses.

103. The order sanctioning the shooting of a glandered horse will be quoted as the authority for striking off charge portions of harness or saddlery destroyed in order to prevent infection.

Articles locally accounted for.

104. The undermentioned articles will not be brought into equipment ledgers, or accounts of artillery works or positions :—

Supplies to the general staff.

(*a.*) Articles supplied to the general staff for local use, except camp equipment, which will be accounted for to the Army Ordnance Department as laid down in paragraph 219.

Boats, barges, &c.

(*b.*) Boats, barges, launches and their appurtenances, which will be accounted for in the local transport equipment ledger (Army Book 165).

Barrack stores. Disinfectants

(*c.*) Barrack stores not forming part of the fixed equipment of the Royal Artillery or other corps, or issued by the Army Ordnance Department for use in camps. Also disinfectants.

Candles, oil, and wick.

(*d.*) Candles, oil, and wick for magazine lanterns and signalling lamps.

Wick for magazine lanterns and signal lamps.

105. The wicks for magazine lanterns and signalling lamps will be issued to the troops by the Army Service Corps, on the usual requisitions for field as well as for general service.

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Books, lithographs, &c.

106. Official books, printed records, lithographs, and maps obtained from the Army Ordnance Department, except the hand books included in corps details, will not be brought on charge in the artillery store accounts or equipment ledgers, but will be forthcoming at all times for the use of those departments or officers for whom they are supplied, and by whom accurate lists thereof will be kept.

Certificate as to their correctness to be furnished.

107. Accountants to the War Office will furnish with their periodical accounts a certificate that the list or catalogue alluded to in paragraph 106 has been verified and corrected to date, that deficiencies through loss or otherwise have been reported to the War Office, and that the authority for striking such deficiencies off the list has been noted thereon.

On change of command.

108. On changes of heads of departments, staff officers, or commanding officers, the officer assuming charge will verify the lists and report any deficiencies.

SECTION III.—ARMS, ACCOUTREMENTS, AND ARM CHESTS.

I.—GENERAL SUPPLY OF ARMS AND ACCOUTREMENTS.

Details of.

109. The arms and accoutrements supplied by the War Department to the regular forces consist of the articles given in the details for the respective services in Part 2.

Establishment kept up.

Units will always have, during peace, arms and accoutrements for their full peace establishment.

Cancelled.

110.

Transfer prohibited.

111. Arms and accoutrements being regimentally marked may not be transferred from one unit to another, except in time of war.

Supply of extra service arms and accoutrements.

112. *Extra service* arms, water bottles, and other accoutrements will be supplied in excess of regulated establishments to accounting units temporarily augmented. Arms so issued, being specially marked will not be taken abroad if supplied at home, and if supplied at stations abroad they will be returned into store before the corps leaves the station, unless it may be necessary to send them away with armed drafts, in which case, a return of the number of arms sent away and of their marking will be at once made by the commanding officer to the Army Ordnance Department. These arms will be shown in returns and accounts as "extra service" arms, and will be given into store when the strength is reduced to the proper establishment, unless they are likely to be required again within a reasonable period.

54
Engineers
9506

D.P. arms for use of recruits.

113. *Drill purpose* arms at the rate of 50 per battalion of infantry will be issued on demand, at home stations, as they become available, to officers commanding, for the use of recruits. They will be supplied in the manner laid down for extra service arms; and on a regiment receiving orders to leave its station, officers commanding will make application to the chief ordnance officer for the return to store of the arms or transfer to the relieving battalion, as may be directed. These arms will not be used for ball firing, and no charges for damages will be made, except for such as are manifestly wilful.

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Practice swords.
54
Artillery.
5354

118A. The practice swords supplied in conformity with the barrack schedules will invariably be used (with the service scabbards) by recruits and young soldiers at drill, mounted or dismounted, instead of their service swords; also by all soldiers at "sword post practice," etc., and at competitions and practices in which swords are liable to strike each other.

Butt-swivels for rifles.
40116
5103
38407
Equipt.
1817

114. When Mark I* rifles are supplied to rifle battalions, and mounted infantry, a butt-swivel will be issued for each arm, to be screwed in by the armourer serjeant. Mark II rifles have swivels screwed in before issue.

Examination of arms on return from service abroad.

115. All the arms in possession of troops returning from service abroad, except from India, will be examined, as soon after arrival as possible, by a viewer specially detailed for that duty by the chief inspector of small arms. An application for the services of a viewer for this purpose will be made by the commanding officer of the corps concerned, through the General Officer Commanding.

Duties of viewer.

116. The viewer will report specially on the condition of the arms as regards their fitness for service, stating what repairs are necessary, and to what extent such repairs can be carried out regimentally. He will also report whether the damages to the arms have been caused by neglect, or by fair wear and tear, due to exceptional service, or to the effects of climate.

Reports relating to rifles.

117. In all reports relating to rifles, the number of the arm and the name of the factory at which it was manufactured will be stated, in order to facilitate identification, in cases where particular rifles are referred to. The number of the rifle and the name of the factory will be found stamped on the body.

II.—SUPPLY (INCLUDING AMMUNITION) FOR TROOPS ON BOARD SHIP, EXCEPT FOR ACTIVE SERVICE.

Notification of troops about to embark.

118. When the General Officer Commanding a district is apprised by the War Office of the strength of the units or detachments intended to embark for service abroad, otherwise than for India, on board a vessel starting from a port in his command, which may subsequently call for some of these troops at other ports at home, he will notify all particulars to the chief ordnance officer at the first port of embarkation.

C.O.O. to place on board the arms, accoutrements, & for drafts

119. The chief ordnance officer will cause the arms, accoutrements, ammunition, and other stores, in the prescribed proportions, to be placed on board, whether the whole of the troops embark at the original port of embarkation, or portions are subsequently to be taken in at other ports, and whether the troops are stationed in his district, or in any other part of the United Kingdom; and he will report such issues to the War Office.

Ammunition, and magazine for.

120. A supply of service ammunition at the rate of 60 rounds for each rifle or carbine, unless otherwise specially ordered, will be put on board the ship by the chief ordnance officer at the first port of embarkation, and a proper magazine will be provided for its security. In the case of units, requisitions will be put forward for this ammunition in the usual manner on the local ordnance officer, who will forward them to the chief ordnance officer at the first port of embarkation. In the case of detachments, the course indicated in paragraph 123 will be observed. Before the ship

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sails commanding officers will ascertain that the ammunition to accompany the troops has been put on board, and properly secured in the magazine.

Drafts for abroad to be supplied with arms and accoutrements for exercise during voyage.

121. When unarmed drafts embark to join regiments abroad, stationed elsewhere than in India, or when they are proceeding to India in freight ships, or when transport is provided for troops abroad, except in the case of invalids and time-expired men, the chief ordnance officer at the port of embarkation will issue to the officer commanding, for their exercise during the voyage, second class (or if these are not available, first class) arms and accoutrements, in the proportion of 10 per cent. of the strength, together with 60 rounds of service ammunition for each rifle, for use in case of emergency, one pair of handcuffs for every 100 men, and one bugle or drum. The accoutrements will consist of a waist belt, a frog, and an ammunition pouch. The following articles will also be placed on board each transport for recreation purposes :—

120
Gen. No.
5036

Clubs, infantry, No. 2, 4 sets ;
Dumb-bells, short, 10 lbs., Mark I, 12 sets ;
Boxing gloves, Bryan's Champion, 14 to 16 ozs., 4 pairs.

Supply of arms, &c., on board transports for India.

122. A supply of arms and ammunition will be kept throughout the season on board all transports when employed on Indian trooping service. The General Officer commanding the Southern District will arrange for the shipment, and for the return to the Army Ordnance Department at the end of the season, to be held on charge for India for re-issue next season.

54
Artillery
4354

122A. When arms, &c., are thus issued for drafts proceeding to India in freight ships or transports, repayment vouchers will be put forward in order that their value may be claimed from the Government of India.

Issue to be made to officer in command.

123. All issues of arms, accoutrements, ammunition, and other stores for drafts under the foregoing orders, will be made to the officer in command, who will receive from the ordnance officer a receipt voucher, and will sign an issue voucher in duplicate for the stores he receives. The officer receiving the stores, or any officer who may succeed him in the command, will be held responsible for the due return of them to the ordnance officer at the port of disembarkation, to whom the duplicate issue voucher will be sent, and he will obtain a receipt for the articles returned by him, in order to clear his charge. In the event of the responsible officer disembarking at an intermediate port, he will hand over to the next senior officer in command, obtaining a detailed receipt from him, the arms, accoutrements, &c., as well as the documents connected therewith. Should the articles not be returned to store on the arrival of the drafts, it will be the duty of the ordnance officer to apply for them. In the case of ammunition expended, the responsible officer will give a certificate that such expenditure has been necessary, detailing the circumstances.

III.—SUPPLY FOR ROYAL ARTILLERY AND ROYAL ENGINEER STAFF CLERKS AND MILITARY POLICE, &c.

Demanding and accounting.

124. The arms, accoutrements, and ammunition for Royal Artillery and Royal Engineer staff clerks and for serjeant instructors of gymnasia, at the several stations and districts

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will be demanded and accounted for by the staff (or other) officer under whom they are serving. Equipment for staff clerks in Royal Engineer offices, military foremen of works, and military telegraphists, will be demanded and accounted for by commanding Royal Engineers, except in the case of the Superintendent of Building Works, Royal Arsenal, Woolwich, who will be a direct accountant for the equipment of the staff under his orders.

On change of station. 54 Gen. No. 6586

125. When a Royal Engineer staff clerk, military foreman of works, military mechanist, or military telegraphist of the rank of quartermaster-serjeant, moves from one station to another, he will take his arms and accoutrements with him, care being taken that receipt and issue vouchers are sent by the accountant to the station to which the warrant or non-commissioned officer is proceeding. In the event of the arms and accoutrements being surplus in consequence of a Royal Engineer staff clerk, military foreman of works, or military mechanist becoming non-effective, they will be returned to the nearest ordnance depôt.

In the case of Royal Artillery staff clerks, the arms and accoutrements are held on charge by the officer commanding the company to which they are attached, except in the Scottish, North-Eastern, and Home Districts, where the officer commanding district establishments will be the accountant.

Equipment of military police.

126. The equipment of the military mounted and foot police will be demanded and accounted for by the provost-marshal, Aldershot.

IV.—SUPPLY FOR THE ARMY SERVICE CORPS (AND STAFF CLERKS ATTACHED THERETO), THE MEDICAL STAFF CORPS, THE ARMY ORDNANCE CORPS, AND THE ARMY PAY CORPS (AND STAFF CLERKS ATTACHED THERETO).

40116 4302 Charge of mounted portion and station staff, A.S.C.

127. With the exception of those for warrant officers, the arms and accoutrements of the mounted men of the Army Service Corps, and those of the mounted station staff, will remain on charge of the companies and stations respectively, and will not be transferred with the men. Those of the station staff will be accounted for by the depôt, or by one of the mounted companies at the station.

40116 4302 Warrant officers and unmounted portion of A.S. and of M.S. corps on change of station.

128. The arms and accoutrements of all warrant officers of the Army Service Corps, and of the unmounted portion of the Army Service Corps, and also those of the Medical Staff Corps, will, in all changes of station, be taken with the warrant officers, non-commissioned officers and men, and will, except as provided in paragraph 130, be transferred by regular voucher from one accountant to another.

Surplus arms and accoutrements, A.S. corps,

129. All surplus arms and accoutrements of the unmounted portion of the Army Service Corps, caused by men becoming non-effective, will, except as provided in paragraph 134, be transferred to the depôt company at Aldershot for re-issue as required.

staff clerk section, A.S.C. and

130. The arms and accoutrements of the staff clerk section, Army Service Corps, and of the staff clerks attached thereto

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staff clerks attached.

serving at home, will be accounted for by the officer commanding the staff clerk depôt, Army Service Corps, Kensington Barracks, W. They will, in all changes of station, be taken with the warrant officers, non-commissioned officers and men, but transfer vouchers will be unnecessary for changes of station at home. When proceeding from the United Kingdom to a station abroad, and vice-versâ, the regular vouchers will be passed between the officer commanding Army Service Corps at the station abroad and the officer commanding the staff clerk depôt. All surplus arms and accoutrements of these soldiers at home, however caused, will be returned to this latter officer.

Arms and equipment.

131. Warrant officers, non-commissioned officers and men transferred or appointed to the staff clerk section, Army Service Corps, will receive the same arms and equipment as soldiers of the same rank in the supply branch of that corps; arms and equipment in possession will, where necessary, be exchanged for those of proper pattern. In the case of corporals, 2nd corporals and privates, the issue of carbines will, however, be withheld.

Surplus arms and accoutrements, M.S. corps.

132. The surplus arms and accoutrements of the Medical Staff Corps will be handed in to the chief ordnance officer, by whom they will be forwarded to the depôt of the Medical Staff Corps at Aldershot, where a reasonable supply should always be retained in store for issue to recruits.

Surplus arms and accoutrements, A.O.

133. The arms and accoutrements that may become surplus in service companies and detachments of the Army Ordnance Corps, will be transferred to the depôt company of the corps at Woolwich.

Corps. Stations abroad.

134. At stations abroad officers commanding detachments will not send home the surplus arms and accoutrements if there is a probability of vacancies being filled up locally in the departmental corps by volunteers from the garrisons, to whom the arms and accoutrements could be issued on the spot.

Surpluses to be sent through A.O.D.

135. When surplus articles are transferred, under paragraphs 129 and 133, they will be sent through the chief ordnance officer, and, if possible, free of charge to the public.

Arms, &c., of A.O.C. to accompany the men.

136. The arms and accoutrements of the warrant officers, non-commissioned officers and men of the Army Ordnance Corps, will accompany them on all changes of station, being duly transferred from one accountant to another.

Arms, &c., of Army Pay Corps.

137. The arms and accoutrements of the Army Pay Corps (and staff clerks attached thereto) will be demanded and accounted for by the paymaster under whom the men are serving, and will be dealt with as directed in paragraph 125.

V.—SUPPLY OF ARTICLES FOR MUSKETRY INSTRUCTION.

Articles for musketry instruction.

138. Articles for musketry instruction will be supplied in the undermentioned proportions; as at A to regiments of cavalry, and battalions of infantry; and as at B to cavalry depôts of regiments in the colonies, units of Royal Engineers, regimental districts, the Army Service Corps at Aldershot and Woolwich, depôt Medical Staff Corps at Aldershot, and depôt Army Ordnance Corps at Woolwich, and will be accounted for as equipment.

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Equipt.
1722

	A.		B.	
	For M.M. and M.E. arms.	For M.L.M. and M.L.E arms.	For M.M. and M.E. arms.	For M.L.M. and M.L.E. arms.
Actions, skeleton (with butts)	2	2	1	1
Aim correctors	2	2	1	1
Implements, action, { M.M.	2	...	1	...
Implements, action, { M.L.M. (patt. C.)	...	2	...	2
Tool, removing striker, M.L.M. rifle	...	2	...	1

These articles will be returned into store upon embarkation for active service. Return to store.

VI.—SUPPLY OF ARM CHESTS.

139. Regimental arm chests or cases, with hinges, suitable for the packing of rifles and carbines, are issued by the Army Ordnance Department as ordinary equipment. The supply will be at the rate of one chest or two cases for each company of garrison artillery, unit of Royal Engineers, and company of infantry, and two chests or four cases for each squadron of cavalry. The cost of the repair of the chests or cases will be defrayed in the manner laid down in the Allowance Regulations. These packages will only be supplied to the above-mentioned services, and the chests will be returned to store prior to embarkation to India, and cases drawn in exchange. Supply and repair of arm chests.

SECTION IV.—REGIMENTAL TRANSPORT.

140. One complete set of regimental transport, as laid down in Part 2, will be provided for each barrack at home (except in the Channel Islands and at Portland) occupied by a regular battalion of infantry, and will be held on equipment ledger charge by the battalion occupying the barrack. Each set of regimental transport will be given a distinctive index number by which it will be referred to in all correspondence. In the event of a battalion changing its station or barrack, the complete set of regimental transport, including shoeing tools, will be transferred to the relieving battalion. In case of delay in the relief of one battalion by another, the General Officer Commanding will arrange for the temporary custody of the regimental transport, and will direct the officer to whom it is handed over to take it on charge in his equipment account. Regimental transport. On change of quarters.

38407
Equipt.
1836

141. Although the stores referred to in paragraph 140 are issued for instruction in transport duties, they will be kept at all times fit for actual service. To be kept efficient.

142. The equipment will be kept in repair by the regular artificers of the troops at the station, as the General Officer Com- As to repair.

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Materials for repair.

Employment of private tradesmen.

manding may direct, under paragraphs 319 and 320. Necessary materials for the repair of harness and saddlery in use with regimental transport will be supplied on demand, as actually required. When private tradesmen are employed, a certificate to that effect is required on the claim, which may be paid, subject to audit, without special reference to the War Office.

SECTION V.—MOBILIZATION EQUIPMENT.

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4698

Mobilization equipment at single unit stations.

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Equipt.
1812

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142A. At certain stations the mobilization equipment—to be termed the "station equipment" of the unit—will be in charge of the officer commanding, and accounted for at the end of the equipment ledger of the unit, pending mobilization.

The authorised scale of equipment is published from time to time in mobilization store tables (Army Form G 1098).

Officers commanding units, who have mobilization equipment in charge, are responsible that it is correct in every respect and fit for service, and that, subject to paragraph 142F, no portion of it is taken into use without due authority having been previously obtained, with the exception of those special articles of the technical equipment of Royal Engineer units, whose fitness for serving can only be verified and maintained by occasional use; these may be used, at the discretion of the officer commanding the unit, to insure that they are kept in a thoroughly serviceable condition and ready for immediate work, but their use is to be restricted to the purposes of the foregoing requirements, and they are to be kept quite separate from the peace equipment; a book is to be kept by the officer commanding the unit, in which is to be recorded a list of the stores tested and used, the character of the tests, the period for which the stores have been used, and the condition after testing or use. Special attention should be paid that the saddlery and harness is kept properly dubbed and in good condition.

Disposition, care, and custody of station equipment.

142B. The station equipment will be kept entirely separate from the equipment of the peace establishment, as well as in a serviceable condition, and ready at all times for immediate use; and on a unit leaving the station its station equipment will, in the absence of an order to the contrary, be handed over to the officer commanding the relief unit.

38407
Equipt.
1812

142C. Mobilization store tables of the latest editions will be kept with the equipment of units, and officers commanding units, whose mobilization equipment is in charge of the Army Ordnance Department, will always have copies of these tables in possession.

142D. On mobilization being ordered, the store table will be the guide as regards the articles of ordnance equipment which a unit takes with it into the field. It is, therefore, a matter of great importance that not only the mobilization equipment of units, but also such of their peace equipment as is, according to the store table, required for war, should be at all times complete and serviceable.

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142E. When mobilization equipment is in charge of the Army Ordnance Department at or near the station of the unit, the commanding officer will inspect and check the equipment for his unit within one month of arrival at the station, and subsequently once annually, and satisfy himself that it is complete and serviceable. Should any serious omissions or imperfections exist, he will at once report them to the General Officer Commanding the district.

Commanding officers will arrange the date for these inspections with the chief ordnance officer of the district.

142F. Officers commanding units having mobilization equipment in charge, and those who are able to inspect their mobilization equipment in Army Ordnance Department charge, will attach a certificate to Army Form B 89 or 90, which is rendered half-yearly, stating the date on which they last inspected the equipment.

Once in each year the mobilization equipment in charge of units (except horse and field batteries, Royal Artillery, which will be dealt with as directed in Sections XI and XIA, Part 2), and, where circumstances admit of it, the mobilization equipment held for units in charge of the Army Ordnance Department, will be drawn by them, and be retained for a period of about one week. During this period each unit will be practised in packing its vehicles, the whole war outfit being completed, as far as is practicable. Empty cases or dummies will be used on these occasions to represent any articles which are not available in the district.

At the end of the week, the unit will perform a route march with its regimental transport packed as for service, if arrangements can be made for horsing the vehicles, the horses and harness of other units in the command being utilized for this purpose. Harness and saddlery stored as mobilization equipment is not to be used during peace.

142G. The turnover of the ammunition in station equipment will be carried out by the officer commanding the unit, by expending that longest in his possession, and replacing by the new received from the army ordnance department. As regards other stores, when new articles are required to replace unserviceable articles in the peace equipment of the unit, requisitions should be forwarded to the army ordnance department in the usual manner, but it should be stated thereon which of the articles demanded can be supplied from the station equipment. The chief ordnance officer will arrange for articles which are issued from the station equipment being marked with the date of issue before transfer to peace equipment takes place, and no stores should be so transferred until similar articles from ordnance depôts are actually on the spot to replace them.

Procedure on handing over station equipment.

142H. When station equipment is handed over to a relieving unit, vouchers will be passed for the equipment, duly certified as correct by the officer commanding that unit, and a certified list will be transmitted to the War Office; or, should any discrepancies exist, full explanation of each will be afforded by the officer commanding the outgoing unit.

Preservation and cleaning materials.

142I. The Instructions for the preservation of harness and saddlery, given in Appendix XIII, Regulations for Army Ordnance Services, issued with Army Order 58 of 1892, will be

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followed for the harness and saddlery of mobilization equipment, and cleaning materials, according to the following scale will be allowed for this purpose :—

54 Artillery 3805

		Annual proportion for each.		
		10 sets of harness (double).	10 sets of saddlery.	10 sets of pack-saddlery.
Linen, old	lbs.	1	½	½
Oil, rape	qts.	2	½	½
Dubbing	lbs.	2	1	1
Camphor or Naphthaline* ..	ozs.	5	2½	4

* For pannels, saddle blankets, and numnahs.

Sizes of neck collars. 40116 4907 and ... 5117

142J. When horse collars are stored with harness in mobilization or station equipment charge, the sizes of the same should be in the following proportions for the services named :—

Service.	Sizes and proportion per 100 collars.								
	21 in.	21½ in.	22 in.	22½ in.	23 in.	23½ in.	24 in.	24½ in.	25 in.
Royal Engineers	6	20	20	22	20	7	3	1	1
Army Service Corps and regimental transport of cavalry and infantry		20	20	24	15	8	7	3	1

40116 5178

142K. The proportion of sizes, &c., of various articles of harness and saddlery for use with registered horses on mobilization—with instructions relating thereto—are detailed in Appendix VIIIA.

SECTION VI.—MACHINE GUNS.

Memo. of examination.

143. A memorandum of examination, or history sheet, will accompany each machine gun, when issued for service. It will be kept in a paper pocket in the gun chest; it will be carefully preserved, and will be handed over with the gun to which it relates, whenever the latter is transferred from the charge of one officer to that of another. An immediate record will be made thereon (in the column "Remarks") of any accident which may occur to the gun, and of the result of each official examination which it may undergo. On every occasion on which the gun is fired, the number of rounds will be inserted on the inner sheets provided for the purpose.

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143A. A return of the state of machine guns, and the number of rounds fired from each gun, Army Form G 909, will be rendered annually by officers commanding districts, Royal Artillery, which will include all machine guns allotted to armaments, whether on charge of Royal Artillery or otherwise. Annual returns. 54 Machine guns 266

A similar return will be rendered by officers commanding cavalry and infantry units having machine guns in their possession.

144. In fortresses or garrisons, where machine guns form part of the armament defence, they will be kept in charge of the Royal Artillery, who will be responsible for their care and preservation. When in charge of R.A.

These guns should not be kept mounted on the works, where they would be liable to deterioration from exposure, but should be kept in their cases in artillery store, ready for immediate service. Not to be kept mounted.

They will be examined at least once a month by a competent armourer serjeant or armament artificer, who has been through a course of machine guns at Enfield Lock. An examination will be made after every occasion on which practice is carried out, and before they are replaced in their cases. 54 Machine guns 96

145. The machine guns in charge of the Royal Artillery will, as a rule, be fired from the works of which they form part of the armament. Where this cannot be carried out on account of danger to life or property in the vicinity, they may be fired from a suitable position outside the work, but they are not to be removed for any other purpose whatever. Where to be fired.

146. When practice, either by Royal Artillery, or infantry using armament machine guns, is carried out from works on sea fronts, the artillery floating target will be used, and it will be moored by the Royal Artillery boat's crew in the usual manner. For practice on land the artillery 6-foot fir target will be used. Targets to be used.

146A. Maxim machine guns of ·303 calibre in possession of regiments of cavalry, sections of mounted infantry, and infantry battalions, will be provided with three barrels, viz. :— Barrels. A.O. 111 1897.

i. One in use, serviceable.

ii. One new, spare.

iii. One old, or unserviceable, marked D.P., for drill purposes or blank firing only.*

The old or unserviceable barrel will form part of the peace equipment only.

When the serviceable barrel falls off in its shooting, or appears worn, the instructions contained in paragraph 147A will be at once complied with, the spare barrel will be taken into use, and a new barrel demanded to replace it.

147. Where infantry, or cavalry, have machine guns on charge, they will be responsible for their care and preservation, and those belonging to the armament are not to be used by them for drill or practice; but when this is not the case, the machine guns in charge of the Royal Artillery may be used by the infantry, for instruction and annual practice, at the discretion of the General Officer Commanding (*vide* note * to paragraph 176). Guns for infantry and cavalry. R.A. guns used by infantry.

147A. When officers commanding units of cavalry, garrison artillery, and infantry, in possession of machine guns of ·303-in. calibre find that the shooting of any gun falls off, or that the Defective shooting.

* These will be supplied as they become available.

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barrel appears worn, a diagram of 10 shots will be taken at 100, or if possible, at 500 yards (two shots being fired first, as the first two shots are often erratic); and if the figure of merit exceeds 1·75 feet for 500, or ·4 feet for 100 yards, they will at once have the gun stripped by an armourer serjeant or qualified armament artificer.

The barrel will then be returned to the Army Ordnance Department for transmission to the Chief Inspector of Small Arms at Enfield Lock for examination, sentence, and disposal.

Spare parts.

147B. The box of spare parts, issued with each machine gun, is provided to supply a set of thoroughly serviceable components and implements which will be always readily available when required. The parts issued with the gun should be used until actually unserviceable; they should then be replaced by new articles from the box of spare parts, the damaged or worn components being sent into store for repair or replacement. The serviceable articles issued in lieu will, when received, be placed in the box of spare parts.

Mode of accounting for guns.

148. Machine guns with equipment will be located in certain barracks, the units occupying which have to form machine gun sections on mobilization. In the case of the regulars, the guns and equipment will be in charge of the occupying units, and will be accounted for in the regimental equipment ledgers. On relief they will be handed over by the out-going to the in-coming unit, issue and receipt vouchers being passed in the usual manner. If required, a viewer can be sent to examine the guns; applications should be addressed to the Chief Inspector of Small Arms, Enfield Lock, N.

Materials for cleaning and oiling.

A.O. 116. 1896.

149. Materials for cleaning and oiling machine guns and their carriages will be supplied in the following proportions:—

	For each Nordenfelt 3-barrel and Gardner 2-barrel gun and carriage per annum.	For each ·45-in. or ·303-in. Maxim gun and carriage or mounting per annum.	
Oil, paraffin, light .. .. pints	½	½	For guns in use.
Oil, rifle .. .. .. „	..	2*	
Oil, Rangoon .. .. .. „	4	6	
Linen, old .. .. .. lbs.	3	3	
Turpentine, spirits of .. .. pints	1	1	
Beeswax .. .. lbs.	¼	¼	For guns in store.
Paraffin .. .. „	¼	¼	
Chalk, white .. .. .. ozs.	2	2	
Oil, Rangoon .. .. .. pints	¾	¾	

The following will be allowed to each store in which machine guns are kept or dealt with:—

Flannel† .... 1 square yard.
Lamp cotton .... 8 ozs.
Twisted copper wire.... 1 rod, 42 inches long, of wire 0·1-in. diameter, in a double twist.

* For guns of ·303-in. calibre only.
† Old blanket is found very effective for the purpose.

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150. The following arrangements will be made for the examination and repair by armourer-serjeants, or armament artificers, of machine guns forming portions of armaments, viz. :— Examination and repair of, 54 Mach. guns 96

(*a.*) At stations where an armourer-serjeant, or armament artificer holding an Enfield Lock certificate, is attached to the Royal Artillery, the necessary examination and repair will be carried out by such armourer or artificer, under the orders of the officer commanding Royal Artillery in the district. By armourer-serjeant attached to R.A. 54 Mach. guns 96

(*b.*) At stations where there is no armourer-serjeant attached to the Royal Artillery, the above services will be carried out by an armourer-serjeant or qualified armament artificer attached to the Army Ordnance Department; or, if there be no such non-commissioned officer at the station, then by the armourer-serjeant of such regiment or battalion as may be quartered at, or near, the station at which the guns are mounted, on the requisition of the officer commanding Royal Artillery (made through the General Officer Commanding), and under his direction. By armourer-serjeant attached to A.O.D. or regiment or battalion nearest the station. 54 Gen. No. 5665

(*c.*) Each armourer-serjeant will be supplied with 12 dummy cartridges for each nature of machine gun under his charge.

SECTION VII.—AMMUNITION.

I.—SERVICE SMALL-ARM AMMUNITION.

151. Service small-arm ammunition will be supplied in time of peace at the following rates for ball cartridge, and should be in possession of the troops, except when returned into store as directed in paragraphs 60 and 64, viz.:— Ordinary supply in possession units.

	Per Rifle or Carbine.		Per Pistol, Home and Abroad.
	Home.	Abroad.	
Cavalry	30	20	12
Royal Engineers	50	20	12
Infantry	100	20	12
Royal Artillery, Army Service, and Army Ordnance Corps	20	20	12

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On mobilisation, the quantities allowed for "Home" will be utilised for filling the men's pouches, before moving to the place of concentration.

When short range cartridges are used by units for annual practice, the full charge cartridges held as service ammunition will be exchanged every two years, under arrangements to be made locally by the chief ordnance officer on the application of the officer commanding the unit. 54 Yeomanry 2

152. In cases of emergency the ordinary supply of service ammunition can be increased to such additional quantity as the General Officer Commanding may consider necessary. Extra supply in cases of emergency.

153. All service ammunition that is not in actual use will be kept in the regimental magazines, in charge of the quartermaster. Custody.

154. Extra issues of ammunition remaining unexpended will be returned to the Army Ordnance Department on the termination of the service that necessitated the supply. Return to store of extra supply.

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Requisitions.

155. Application for service ammunition will be made on Army Form G 815.

Expense vouchers.

156. The expense voucher by which service ammunition is struck off charge must refer to the circumstances and authority (if any) under which the expenditure took place.

Ammunition longest in hand to be expended first.

157. It is essential, in order that the ammunition in possession may always be in the best possible condition, that the cartridges that have been longest in the hands of the troops should be expended first. Great care will be taken that service ammunition issued to men mounting guard, &c., is not allowed to remain in the pouches, but that it is used at musketry practice before any unbroken packages are touched. The ammunition from boxes which have been opened will be completely used up before the linings of other boxes are opened, and every care will be taken that the tin linings are not disturbed until the ammunition is actually required for use.

Opened boxes to be completely used up.

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158.

II.—SMALL-ARM AMMUNITION FOR PRACTICE AND EXERCISE.

Proportions of small-arm ammunition for practice and exercise.

159. The annual proportions of small-arm ammunition and aiming tube cartridges for practice and exercise, for the Regular Forces, are as follows :—

Corps.	Rounds. For each trained soldier.	For each trained soldier. Rank and file only.		For each recruit (officer †† or man).			Remarks.
	Ball.	Blank.	Cartridges, aiming tube.	Ball.	Blank.	Cartridges, aiming tube.	
Cavalry	150*	30	25†	200	20	25†	
A.O. 188. 1896 — Artillery, Garrison, including local companies of Royal Artillery ...	20	20	25	20	20	...	
Artillery, Horse and field ...	10	10	...	20	20	...	
Engineers armed with rifle ...	80*	40	25†	100	20	25†	
Engineers armed with carbine ...	50*	30	25†	100	20	25†	
Infantry...	200*	40	25†	200	20	25†	
Army Service Corps	21	...	25§	100	20	...	
Medical Staff Corps	...	...	...	40	20	...	
Army Ordnance Corps	...	...	...	40	20	...	

* Including 10 rounds for shooting matches or private practice.

† In cases where the officer commanding desires the exchange, or where practice with aiming-tube cartridges cannot be carried out, ball or blank small-arm ammunition of equal value, according to the rates given in the priced vocabulary of stores, may be issued in lieu. Ten rounds of the allowance may be drawn for each recruit at such depôts as may demand it.

Any Engineer recruit who does not fire his trained soldier's course in his first year, may draw 10 rounds for private practice and shooting matches.

§ This allowance is to be drawn by men stationed at head quarter stations of companies, and in Egypt and Gibraltar; at other stations blank or ball ammunition of an equivalent value, according to the priced vocabulary of Stores, may be drawn.

†† This ammunition will not be drawn for officers who, on leaving the Royal Military College, have passed out of the 3rd class.

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Every soldier in the first year of his service may fire the proportions of ball, blank, and aiming tube ammunition allowed for a recruit, together with those allowed for the trained soldier. Dual allowance in first year of service.

The following addition will be made to the above-mentioned proportions of ball ammunition :—

For field firing, to be drawn only on the order of the general officer commanding a station or district— Allowance for field firing in addition.

Cavalry, regiment of .... 800 rounds
Infantry, battalion of .... 1,200 „

and the following to the proportion of blank ammunition :—

For training remounts :—

Royal Horse and Field Artillery—10 rounds per remount, to be drawn by batteries when required.

Royal Engineers—400 rounds to be drawn by the field depôt.

Army Service Corps—1,300 rounds to be drawn by station staff as follows :—Aldershot, 540 rounds ; Woolwich, 480 rounds ; Curragh, 140 rounds ; Dublin, 140 rounds.

160 to 162. *Cancelled.* 75 | 3 7832 A.O. 34 1897

163. The annual allowance of ammunition for practice and exercise with pistols will be as follows :—

	Rounds per man.	
	Ball.	Blank.
Officers, warrant officers, non-commissioned officers and men armed with pistols in time of war :—		
Cavalry (except drivers)	50	20
Royal Artillery	25	10*
Royal Engineers	25	10*
Infantry (except drivers)	25	..
Drivers, regimental transport (cavalry and infantry)	25	10
Military Mounted Police	25	..
Army Service Corps	25	10*
Army Ordnance Corps	25	..

* Officers of mounted branches only will draw blank ammunition.

164. Commanding officers are authorised, subject to the approval of the General Officer Commanding, to draw on repayment for each officer to use with his own pistol, 36 rounds of pistol ammunition annually, should the state of the store admit of such issues being made. Under similar circumstances a further quantity may be obtained for the use of non-commissioned officers or men, not exceeding for infantry battalions 72 rounds, for cavalry regiments and batteries of Royal Horse and Field Artillery 36 rounds per pistol on charge. The value of these supplies issued on repayment will be recovered as directed in paragraph 32. Additional supplies of pistol ammunition on repayment.

165. The effective strength of the units on the 1st January at home stations, and 1st April at stations abroad, will form the basis for estimating the quantities required for the annual practice and exercise ; but it should be understood that commanding officers will draw ammunition for the numbers actually present. Basis for estimating demands.

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Ball ammunition for officers.

166. Ball ammunition may be drawn at the rate of 80 rounds each for such regimental officers as may go through the course of "individual firing," but this ammunition will not be used for any other purpose.

Services embraced by general issues.

167. It is considered that the proportions of ammunition laid down in paragraph 159 will be sufficient for all requirements, including those for the regulated repetition practice by "bad shots" of recruits and trained soldiers; for testing rifles; and for funerals.

Ammunition for matches on repayment.

168. The General Officer Commanding is authorised to sanction the issue on repayment of ammunition for matches, not exceeding 130 rounds for each competitor per annum; the issue of pistol ammunition being limited to those who, on service, would be armed with the revolver. The value of the ammunition will be recovered in the manner prescribed by paragraph 32.

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Aiming-tube cartridges.

169. Aiming tube cartridges, required for gallery or private practice, may be drawn from the Army Ordnance Department on repayment, by quarterly requisitions.

N.C.O. and men not having rifles or carbines.

170. Non-commissioned officers and men to whom rifles or carbines are not issued as part of their equipment, when required to go through a course of musketry practice will do so with the arms of the unit to which they are attached, and will be included by that unit in the annual demand for ammunition.

Requisitions to be made annually.

171. Requisitions for practice and exercise ammunition will be made on Army Form G 815, and should be sent to the chief ordnance officer in sufficient time to admit of the issue being made for the annual musketry practice laid down in the Regulations for Musketry Instruction.

When unit is under orders to move.

172. The requisition will be made, although at the time the unit may be under orders to leave the district, *see* paragraphs 35 and 173.

Station from which to be drawn.

173. In the event of no issue of ammunition having been made prior to the unit leaving the station, the chief ordnance officer will, on the application of the commanding officer, return the requisition with a certificate thereon that no supply has been made upon it; he will also add a memorandum stating the quantity, if any, of service and other ammunition given into store (*see* paragraph 64). When the requisition has been in part complied with, the ordnance officer will furnish the commanding officer with a balance certificate on Army Form G 802 showing the amount remaining due to the corps.

Certificate is sufficient authority to draw an equal quantity.

174. On the unit arriving at its destination, the requisition or balance certificate will be given to the chief ordnance officer at the new station, and it will be a sufficient authority for the supply being made as required. In the absence of this requisition no issue can be allowed.

Ammunition forfeited.

175. Any of the annual supply of ammunition, which has not been drawn by the end of the musketry year for which it is allowed, will be forfeited. At home, and in other temperate climates, the last day of the musketry year will be the 31st December; in other climates the 31st March.

Complaints as regards defective ammunition.

175A. In all complaints regarding alleged defective small-arm ammunition, commanding officers will, in order to facilitate identification, cause the marks on the packages, and on the boxes, to be quoted

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III.—MACHINE GUN AMMUNITION.

176. The annual proportions of ammunition for practice and exercise will be as follows :— Proportions of machine gun ammunition for practice and exercise.

	Cartridges, machine gun.	
	Ball, for practice.	Blank.
For each unit of cavalry and infantry having machine guns actually in possession ... Cavalry—Where the course is carried out four times	Per gun. 1,100	Per gun. 1,000
,, Where the course is carried out twice ...	600	
Infantry—Where the course is carried out four times	1,700	
,, Where the course is carried out twice ...	900	
For Stations. For each gun actually in possession, forming part of the armament (whether in the hands of Infantry or Royal Artillery)... ... 0·4 inch gun	340 *†	50 *‡
Ditto ditto ... ... ·303 inch gun	366 §	
Ditto ditto ... ... 0·45 inch gun	290 *†	

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* The rounds drawn for the station are to be expended under the orders of the general officer commanding in training the troops at the station whether infantry or artillery.

† One complete box per two guns, to be taken from the ammunition of oldest date in charge as equipment of the guns.

‡ Except for Maxim ·303 inch and ·45 inch guns.

§ One complete box per three guns, to be taken from the ammunition of oldest date in charge as equipment of the guns.

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177. When infantry battalions have no machine guns in possession, they may carry out their annual practice with armament guns under the regulations laid down in paragraphs 145 to 148, at the discretion of the General Officer Commanding. Infantry without machine guns.

IV.—GUN AMMUNITION FOR PRACTICE AND EXERCISE.

178. The proportion of gun ammunition for practice and exercise of the Royal Artillery, and instructions relating thereto, will be found in Part 2, Artillery Special Instructions and Details. Reference to the detailed instructions.

V.—BLANK AMMUNITION FOR REVIEWS AND FIELD DAYS.

179. An extra allowance of blank ammunition may be ordered to be supplied, at the discretion of General Officers Commanding, on the occasion of reviews and field days, to units present at the following stations. This extra allowance must not exceed the undermentioned proportions during the year. Issue may be made independently of the annual allowance of small-arm ammunition drawn under paragraph 159, and gun ammunition under Artillery Special Instructions and Details, Part 2, so as to provide for all occasions of reviews and field days. Additional blank ammunition allowed for reviews and field days at special stations.

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Home.	Blank Small Arm Ammunition.	Blank Gun Ammunition.
Aldershot	100 rounds for each man.	100 rounds for each field gun.
Chatham	30 ,, ,,	... ...
Colchester	40 ,, ,,	60 ,, ,,
Cork	30 ,, ,,	... ...
Curragh	100 ,, ,,	125 ,, ,,
Devonport and Plymouth ...	40 ,, ,,	60 ,, ,,
Dover and Shorncliffe ...	40 ,, ,,	60 ,, ,,
Dublin	30 ,, ,,	60 ,, ,,
Fermoy	30 ,, ,,	... ...
London	20 ,, ,,	... .
Home District	... ...	60 ,, ,,
Portsmouth	40 ,, ,,	50 ,, ,,
Strensall	40 ,, ,,	60 ,, ,,
Windsor	20* ,, ,,	... ...
Woolwich	20 ,, ,,	80 ,, ,,.
Abroad		
Bermuda	30 ,, ,,	... ...
Canada	30 ,, ,,	... ...
Cape	40 ,, ,,	... ...
Ceylon	30 ,, ,,	... ...
Egypt	30 ,, ,,	... ...
Gibraltar	20 ,, ,,	... ...
Hong Kong	30 ,, ,,	... ...
Jamaica	30 ,, ,,	... ...
Malta	20 ,, ,,	... ...
Mauritius	30 ,, ,,	... ...
Natal	40 ,, ,,	... ...
Straits Settlements	30 ,, ,,	... ...

* Battalion of Guards only.

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The above proportions of small-arm ammunition will be calculated on the number of men at each station on the 1st June in each year.

Blank ammunition for movable armaments.

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I. of Wight.
1498

180. An allowance of blank ammunition, not exceeding 20 rounds per piece annually, will also be allowed for all guns and howitzers in the movable armament, except Q.-F. guns of a district at home or station abroad, for reviews, field days, &c.

Form for requisitions.

181. Commanding officers will make requisitions on Army Form G 804 for the ammunition to be supplied under paragraph 179, and it will be issued as required to each corps.

For inspections, reviews, or field days to be taken from annual allowance.

182. Ammunition expended at inspections, reviews, or field days must be taken from that included in the annual allowance for practice and exercise, except in such cases as are specially provided for by paragraph 179. If any departure from this regulation is considered desirable the authority of the War Office must be obtained before any additional issues are made.

VI.—CONVEYANCE OF AMMUNITION.

Notice prior to forwarding ammunition.

184. Neither gunpowder nor ammunition of any kind will be forwarded by, or to, any unit or ordnance depôt until the officer forwarding the same is satisfied that the consignee is ready to receive it.

Responsibility as to loading and condition of wagons.

185. Whenever ammunition is conveyed in military wagons or carts, the loading will be performed by the troops, who will be held responsible for its correctness, as well as for the condition and suitability of the transport.

Application for military transport.

186. When military transport is required by the Army Ordnance Department, the ordnance officer will apply for it to the officer commanding Army Service Corps, stating the nature and weight

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of the ammunition to be conveyed, and specifying, when transit by rail is necessary, the particular hour by which such ammunition must be delivered at the railway station. The officer commanding Army Service Corps will then notify to the ordnance officer at what hour the wagons will call at the ordnance depôt for such ammunition. A.O. 188. 1896.

187. The consignee will arrange in like manner with the officer commanding Army Service Corps at the station for the transport of the ammunition (after its arrival at the railway station) to its destination. Transport of ammunition from railway.

188. When horses only are required from the troops the application will state the number of wagons to go, the weight of ammunition to be conveyed, and the time the convoy should reach its destination. The officer commanding Army Service Corps will then send such horses as he may consider necessary, informing the ordnance officer when he may expect them at the depôt. When horses only are applied for.

189. An officer or subordinate of the Army Ordnance Department will be in attendance at the depôt, at the time appointed to hand over the packages, convoy notes, and any wadmiltilts or other coverings that may be required, to the officer commanding the party, unless a conductor of the Army Ordnance Corps is appointed to accompany the convoy, which will invariably be the case whenever ammunition is forwarded by railway or other public conveyance. When a conductor is employed, he will be responsible for the ammunition, wadmiltilts, or other coverings, and will retain the convoy notes. Convoy notes will be dealt with as laid down in paragraph 71. Charge of packages, &c. Conductors with convoys.

190. A receipt will be given by the officer in command of the party for any coverings supplied to him, and he will return them into store when no longer required. Receipt for covering.

191. In the event of the orders existing in the district rendering a military escort necessary, the consignor will apply to the commanding officer for the escort, stating the day and hour when it will be required, and, unless the transport is provided by the troops, the number of wagons or carts to be escorted. Escorts, application for by consignor.

192. Should the ammunition be forwarded by railway, or water carriage, and the escort not accompany it, the consignee will make arrangements for the attendance of an escort, if required, to meet the ammunition on arrival, and conduct it to its destination. And by consignee.

193. Officers in command of escorts will prohibit smoking near the wagons, and will see that none of the party have lucifer or other matches in their possession. Smoking prohibited.

194. When ammunition is consigned to the troops, the officer who is the consignee will give to the conductor a receipt on the duplicate convoy note, and will be furnished by the conductor with the triplicate copy, which he will retain. Military consignees.

195. Should it be necessary to hire wagons for the conveyance of ammunition when consigned to the troops, the arrangements will be made by the Army Service Corps, on the application of the commanding officer. Hired transport for conveyance to troops.

196. In the conveyance of small quantities of small-arm ammunition by rail in the United Kingdom, to expedite issues to corps, Iron cylinders.

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and also to obviate the expense of the employment of powder vans, iron cylinders adapted for containing half and quarter barrels will be used. These cylinders will not, however, be required when the cartridges are packed in small-arm ammunition boxes.

To be returned at once by same mode of conveyance.

197. Commanding officers and others will, immediately on receiving these cylinders, empty and return them, with the spanners and bags supplied with them, to the ordnance officer at the station from which they were sent, using the same mode of conveyance as that by which they arrived.

SECTION VIII.—HARNESS, SADDLERY, STABLE NECESSARIES, AND EQUITATION ARTICLES.

To whom supplied.

198. Saddlery will only be supplied at the public expense to officers provided with horses which are the property of the public, to officers belonging to mounted units, Royal Engineers, and to certain officers of Army Service Corps as shown in Part 2.

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198A. Horse logs for use in conjunction with head ropes in billets on the line of march, will be demanded from the Army Ordnance Department, by officers commanding mounted units and returned to store on arrival at their destination.

Stable necessaries.

199. Stable necessaries, including nose bags, corn sacks, and corn bags, will be supplied on demand for all mounted services, for horses which are public property, in the proportions laid down in the several corps details, Part 2. For hired horses, when employed on the public service, there may be issued 1 horse brush, 1 curry comb, and 1 sponge for every two horses, and a nose bag for each horse.

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Unserviceable stable necessaries.

200. The stable necessaries which are supplied annually need not, when unserviceable and replaced by fresh issues, be returned to store.

If unserviceable under the time allowed.

201. In the event of stable necessaries becoming unserviceable before the expiration of the period of duration prescribed for them they must be replaced at the expense of the troops.

Pannels may be issued unstuffed.

202. Saddle pannels are, as a rule issued stuffed, but should it be advisable at any time to issue empty cases, they will be converted into pannels by the regimental artificers without charge, and the following proportions of materials will be supplied for stuffing each pair :—

			lbs.	ozs.
Officers, new pattern	....	.... hair, horse, saddlery	3	8
Universal pattern....	....	.... „ „ „	1	4
Harness new pattern	drivers	... „ „ „	3	0
	luggage	.... „ „ „	2	0
Harness old pattern	drivers	.... „ cow	3	8
	luggage	.... „ „	2	8

Proportion of hair for stuffed pannels.

203. When pannels are issued stuffed, the following proportions of hair, in addition to the ordinary annual proportions given in the several corps details, Part 2, will be issued :—

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With each pair of new pannels for harness new pattern, and for saddlery, old and new pattern .... } ½ lb. of horse hair.

With each pair of pannels for harness, old pattern .... } ½ lb. of cow hair.

Officers will accordingly, in making demands for pannels, insert in their requisitions the proportions of horse hair or cow hair allowed for completing and fitting the stuffing.

204. One quarter of an ounce of quilting twine will be allowed for each pair of cases. No issues under one ounce will be made; the regimental supply will be made use of when smaller quantities are required. Twine.

205. Equitation articles will be supplied to the mounted services in the proportions shown in the several corps details, Part 2, and will be accounted for in the same manner as other equipment. Equitation articles.

SECTION IX.—HORSESHOES.

For Mounted Services at Home and Abroad excepting India.

206. Shoes and nails in assorted sizes, as detailed below, will be issued by chief ordnance officers on the requisitions of commanding officers. Sizes of shoes and nails to be demanded.

Proportions of the various sizes of Horseshoes issued for Cavalry and Mounted Infantry Cold Shoeing.

	Description.	No. per cent.	No. of nails.	Total of nails per set of 4 shoes.	
Shoes, horse, pairs	No. 2 { fore... ... ... / hind ... ... }	5	No. 6	30	For Cavalry.
	,, 3 { fore... ... ... / hind ... ... }	21	,, 6	30	
	,, 4 { fore... ... ... / hind ... ... }	35	,, 7	30	
	,, 5 { fore... ... ... / hind ... ... }	28	,, 8	30	
	,, 6 { fore... ... ... / hind ... ... }	9	,, 8	36	
	,, 7 { fore... ... ... / hind ... ... }	1	,, 9	36	
	,, 8 { fore... ... ... / hind ... ... }	1	,, 9	36	
	,, 2 { fore... ... ... / hind ... ... }	20	,, 6	30	For Mounted Infantry.
	,, 3 { fore... ... ... / hind ... ... }	70	,, 6	30	
	,, 4 { fore... ... ... / hind ... ... }	10	,, 7	30	

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Proportions of the various sizes of Horseshoes issued for Royal Artillery and Royal Engineers Cold Shoeing.

	Description.	No. per cent.	No. of nail.	Total of nails per set of 4 shoes.	
Shoes, horse, pairs	No. 3 fore	5	No. 6	30	For Royal Artillery.
	No. 3 hind				
	,, 4 fore	20	,, 7	30	
	,, 4 hind				
	,, 5 fore	28	,, 8	30	
	,, 5 hind, without calkins	25	,, *9 or 8 heel holes		
	,, 5 ,, with calkins †	3	,, 10 toe ,,		
	,, 6 fore	29	,, 8	36	
	,, 6 hind, without calkins	25	,, *9 or 8 heel holes		
	,, 6 ,, with calkins †	4	,, 11 toe ,,		
	,, 7 fore	12	No. 9	36	
	,, 7 hind, without calkins	9	,, 9 heel holes ...		
	,, 7 ,, with calkins †	3	,, 11 toe ,, ...		
	,, 8 fore	6	,, 9	36	
	,, 8 hind, without calkins	4	,, 9 heel holes ...		
	,, 8 ,, with calkins †	2	,, 11 toe ,, ...		
	,, 5 fore	21	,, 8	30	For Royal Engineers.
	,, 5 hind, without calkins	18	,, *9 or 8 heel holes		
	,, 5 ,, with calkins †	3	,, 10 toe ,,		
	,, 6 fore	33	,, 8	36	
	,, 6 hind, without calkins	15	,, *9 or 8 heel holes		
	,, 6 ,, with calkins †	18	,, 11 toe ,,		
	,, 7 fore	31	,, 9	36	
	,, 7 hind, without calkins	11	,, 9 heel holes ...		
	,, 7 ,, with calkins †	20	,, 11 toe ,, ...		
	,, 8 fore	15	,, 9	36	
	,, 8 hind, without calkins	6	,, 9 heel holes ...		
	,, 8 ,, with calkins †	9	,, 11 toe ,, ...		

For A. S. Corps.

Officers commanding units of Army Service Corps will demand horseshoes of sizes as required.

Spare set of shoes.

207. A spare set of shoes, in addition to those on the horses' feet, with a proper complement of nails ready fitted for immediate use, and stamped with the army and squadron, battery, company, or in the case of Royal Engineers, unit, number, will at all times be in possession of each unit for every public horse. 50 per cent. of these shoes and nails in the case of cavalry, Royal Artillery, Royal Engineers, and Army Service Corps, should be hand made, and the remaining 50 per cent. of shoes and nails machine made. These spare shoes and nails are to be used every quarter, and replaced by new ones.

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Quantities to be demanded.

208. In making requisitions, commanding officers of units of cavalry, Royal Artillery, Royal Engineers, and Army Service

* According to braud of nail used.

† For each pair of hind shoes with calkins, 9 nails are allowed for toe holes and 9 for heel holes.

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Corps will demand shoes for one-half of the number of horses present, but not more at one time than three sets of shoes, with nails, per horse, this number of sets being presumably sufficient for three months. No greater proportion of shoes will be allowed without a certificate from the veterinary officer, countersigned by the commanding officer, explaining the exceptional circumstances which have rendered additional supplies necessary.

Old shoes to be utilised.

209. Shoes, in equal proportions, of fore and hind, for one-half of the number of horses on the establishment, will be made in the forges of the various units referred to in the preceding paragraph, out of the worn shoes removed from the horses, and any iron that may be required in addition will be supplied by the Army Ordnance Department, on a requisition from the veterinary officer, countersigned by the commanding officer.

Nail-rod when supplied.

210. Nail-rod, for making nails in the following proportions, will be supplied from the Army Ordnance Department on requisition from commanding officers :—

Rod, Nail, $\frac{3}{8}$-inch.

	Per regiment, per month.
For regiments of cavalry at home on the higher establishment	70 lbs.
For regiments of cavalry at home on the lower establishment	54 ,,
For regiments of cavalry at home last from service abroad	48 ,,
For regiments of cavalry in the colonies	56 ,,

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In batteries of artillery, according to the number of horses as follows :—

104	horses	26 lbs. per month.
90	,, ...	23 ,, ,,
86	,, ...	22 ,, ,,
58	,, ...	15 ,, ,,
50	,, ...	13 ,, ,,
40	,, ...	10 ,, ,,

In units of Royal Engineers and Army Service Corps, 1 lb. per month for every four horses or fraction of four.

Arrangements as to shoes and nails when changing station.

211. When units march from one station to another, one fore shoe (with nails) will be carried on each horse, and in the case of horses with brittle feet one hind shoe (with nails) in addition. Commanding officers will arrange to send forward as heavy baggage, to such points in the line of march as may be most convenient, any further numbers likely to be required on the march, not exceeding one set per horse for the entire strength, and will return the remainder (including any old shoes in possession) to store, or, if there is no ordnance depôt at the station, hand them over to the incoming unit; in either case obtaining a receipt. The shoes removed from the horses' feet on the march will be returned to store, should opportunity offer, and a receipt likewise obtained for them, unless they can be conveniently carried by the regimental transport. When the route of the unit lies through an Army Ordnance Department station, any shoes required will be drawn there, so as to

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obviate, as far as possible, the expense of sending shoes forward by rail. On the arrival of the unit at its destination a number of new shoes equivalent to those returned to store, or handed over may be drawn; one new shoe being considered equal to two old ones, and the receipts above referred to being attached to the requisition.

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If the unit proceeds by rail from one station to another, one fore shoe (with nails) will be taken, the balance being returned to store or handed over to the incoming unit if there is no ordnance depôt at the station, and others drawn in lieu as directed above.

Should the station to which a unit is moved have no ordnance depôt, special arrangements for the supply of shoes and nails from the nearest ordnance depôt will have to be made.

Shoeing officers' horses.

212. Officers' horses may be shod, if desired, with store shoes, such shoes and nails to be paid for at the rate of one shilling and tenpence per set. The farriers will render a monthly return of the number of officers' horses thus shod, in order that the necessary credit may be given for the value of the shoes and nails in the pay list. All other shoeing must be done by private arrangement, and with private materials.

Forge tools.

213. Forge and shoeing tools (except the barrack fixtures provided by the Royal Engineers) will be drawn from the Army Ordnance Department, and held on equipment ledger charge.

A set of forge tools will consist of :—

Woolwich Store Charge 7.

Chests, tool, empty, No. 7	1
Chisels, farriers	2
Cresses, sets of 2	sets 1
Cutters, anvil, nail, farriers	1
" " flat, smiths	1
" half-round	2
Fullers, farriers	2
Hammers, farriers, pointing	1
" " turning	1
" " sledge	2

Woolwich Store Charge 8.

Pritchels	4
Stamps	2
Tongs, farriers, fire	1
" " turning, large	1
" " " medium	1
" " " small	1
Pokers, smiths	1
Slices, farriers	1
Stakes "	1

The proportion in which these sets of tools will be supplied to each unit is as follows :—

Regiment of cavalry	sets 6
Mounted unit and field company of Royal Engineers	" 1
Battery of mountain artillery	" 1
" of Royal Horse Artillery	" 1
" of field artillery	" 1
Company of Army Service Corps	" 1

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Eight sets of shoeing tools (two sets per squadron) will be allowed to each cavalry regiment, one set to each mounted unit and field company Royal Engineers, and three sets for each Army Service Corps company, as shown in the various corps details.

The shoeing tools and number of sets allowed for a battery of horse, field, or mountain artillery, are given in Sections XI and XIA, Part 2.

Worn out rasps may be retained and used for steeling horseshoes.

Nails may be obtained separately.

214. For the convenience of farriers, shoes or nails can be obtained separately in sizes; but, unless specifically demanded, nails will be issued with shoes in the proportions shown in the following table. Each box of shoes of one size will be packed with the due proportion of nails appropriate to that size of shoe.

Sizes of nails.

Table of Nails for Horse, Mule, and Pony Shoes.

Description of Shoes.	Nails required for the several Shoes.		Remarks.
	Designation Number.	No. per set of shoes.	
Horse Shoes.			
No. 1 { fore ... ... / hind	3 or 4*	30	
,, 2 { fore ... ... / hind	6		
,, 3 { fore ... ... / hind	6	30	
,, 4 { fore ... ... / hind	7		
,, 5 { fore ... ... / hind { without calkins ... / with ,, † ...	8 / 9 or 8 heel holes* / 10 toe ,,	30	
,, 6 { fore ... ... / hind { without calkins ... / with ,, † ...	8 / 9 or 8 heel holes* / 11 toe ,,	36	
,, 7 { fore ... ... / hind { without calkins ... / with ,, † ...	9 / 9 heel holes / 11 toe ,,	36	
,, 8 { fore ... ... / hind { without calkins ... / with ,, † ...	9 / 9 heel holes / 11 toe ,,		
,, 9 { fore ... ... / hind { without calkins ... / with ,, † ...	12‡ / 10‡ heel holes / 13‡ toe holes	40	
,, 10 { fore ... ... / hind { without calkins ... / with ,, † ...	12‡ / 12‡ heel holes / 13‡ toe holes	40	
Mule Shoes.			
,, 11 } ,, 12 } (also for donkeys)	4 or 3* / 5 or 4*		
,, 13	6 or 5*	30	
,, 14	6		
,, 15 } ,, 16 }	7	40	
Pony Shoes.			
,, 21 { fore ... ... / hind	4 or 2*	30	

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Gen. No.
6665

* According to brand of nail used.

† For each pair of hind shoes with calkins, 9 nails are allowed for toe holes, and 9 for heel holes.

‡ Capewell.

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Infantry Regimental Transport.

Infantry Regimental Transport. 54 Gen. No. 6596

215. Horseshoes will be issued on demand, at the rate of one set per month, for each animal borne on the establishment of regimental transport in battalions of infantry, together with the proportion of nails specified in the preceding table. All the worn-out shoes will be returned to the army ordnance department.

Military Mounted Police.

Military mounted police.

216. The military mounted police will draw machine made shoes for the whole of the horses on their establishment, in such quantities as may be required, all worn-out shoes being returned to army ordnance department for disposal. At stations other than Aldershot no forge or shoeing tools will be specially issued, the shoes being placed on the horses' feet by the farrier serjeant of the corps to which the horses are attached. At Aldershot, one set of forge and shoeing tools, as allowed for cavalry, may be drawn for the farrier quartermaster serjeant attached to the staff.

The proportions of the various sizes of horseshoes to be drawn as follows :—

Description.		No. per cent.	No. of nails.	Total of nails per set of 4 shoes.
Shoes, horse, pairs	No. 5 fore	50	No. 8	30
	No. 5 hind			
	„ 6 fore	50	„ 8	36
	„ 6 hind			

Mounted Infantry.

54 Gen. No. 6596

216A. Mounted infantry, when employed as such, will draw the full complement of machine-made shoes, viz., 1 set per month per horse. All worn-out shoes will be returned to the Army Ordnance Department.

Frost Nails.

Frost nails.

217. On the 1st September in each year demands will be put forward by officers commanding mounted units at home (Jersey and Guernsey excepted) for frost nails in the following proportions :—

	No. of nails per horse.
Cavalry	40
Royal Artillery (horse, field, and mountain batteries)	40
Royal Engineers	40
Infantry (regimental transport)	60
Army Service Corps	120
Military mounted police	120

The nails remaining on hand on the 31st March following will be returned to store.

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SECTION X.—CAMP EQUIPMENT AND INTRENCHING TOOLS.

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218. The proportions of camp equipment and intrenching tools for mounted and dismounted services, on manœuvres and in standing camps, are contained in Appendix VI. The scale for standing camps will guide issues to troops placed under canvas for the season, or for lengthened periods, or when camps are formed for accommodation of troops at gun or rifle practice. When barracks have to be temporarily vacated, tents and other articles may be drawn by officers commanding, as far as may be necessary, on the scale for standing camps.

For temporary use not taken on ledger charge.

219. Camp equipment and such other stores issued in connection therewith as may be received for temporary use, for manœuvres or other encampment purposes, and for like services, will not be brought on charge in the equipment ledgers, but will be accounted for on Army Form G 973 to the ordnance officer with whom the transactions occur.

Supply of tents and barrack stores.

220. Tents only (and bed boards and trestles if necessary) will be supplied by the Army Ordnance Department to supplement barrack accommodation. All other barrack stores will be supplied by the Army Service Corps.

Increase in proportions.

221. When the General Officer Commanding finds it necessary to increase the regulated proportions of stores supplied in camp, he will proceed as directed in paragraph 6.

Reduction of proportions.

222. In all issues for camps of manœuvre or flying columns at home, the General Officer Commanding may, if he thinks fit, reduce the proportions in view of the requirements of the particular service, and the strength of the troops and companies, and so diminish the weights to be transported.

Supply of articles for shelter-trench drill.

223. Whenever a General Officer Commanding directs that shelter-trench drill is to be carried out at a station where there is an ordnance depôt, or which can easily be supplied from one, the following articles will be issued to a battalion :—

2 Pickets, tracing.
1 Tape, tracing.
50 Axes, pick { Heads, 2¾ lbs. / Helves, 29 ins.
50 Shovels, light, cast steel.

Return of drill articles.

224. The articles will be brought to account in the equipment ledger and returned to the Army Ordnance Department as soon as the drill is completed, or before the battalion leaves the station, if the drill is not then completed.

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Stations not easily supplied from an ordnance depôt.

225. At stations which cannot easily be supplied from an ordnance depôt, the articles mentioned in paragraph 223 will be issued, as directed by the Regulations for Army Service Corps Duties.

Accounting for camp equipment.

226. All officers furnishing equipment ledgers will account for camp equipment as laid down in paragraph 219. Prior to leaving the camp, or at the termination of the service, they will see that all the articles taken on charge are duly accounted for on Army Form G 973, as either returned into store or deficient. Any deficiencies will be charged against the unit, except in the case of wooden tent pins, of which 5 per cent. may be written off charge as expended by fair wear.

Tent pins.

Method of drawing camp equipment by non-accountants.

227. Staff officers or others who are entitled to camp equipment, but who are not accountants to the War Office for such equipment, and are not attached to a corps, will make their requisitions in duplicate on Army Form G 968. The depôt of supply will be inserted by the ordnance officer, who will retain one copy of the requisition and return the duplicate, which, when signed by the person receiving the stores, will be given as an issue voucher to the ordnance officer at the supply depôt, and that officer will give the officer responsible for the stores a receipt voucher, by which to take them on local charge on Army Form G 973. The officer drawing the stores will be held responsible for their due return to the Army Ordnance Department; and when the stores are returned a receipt voucher on Army Form G 1033 will be sent with them, upon which will be given particulars as to the date of the original supply and by whom made, so that the stores may be identified by the ordnance officer receiving them.

Wood bottoms for circular tents.

228. Wood bottoms for circular tents will be issued only when, owing to the dampness of the ground or to other causes, their use is certified to be necessary by the principal medical officer. They will not be supplied for officers', store, office, or workshop tents.

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Pembroke
3088

229. The General Officer Commanding, in authorising the supply of wood bottoms, will proceed as directed in paragraphs 5 and 6.

Picketing gear, etc., for Officers' horses and hired horses.

230. Nosebags, picketing gear, waterproof covers for saddlery, and forage nets, will be supplied in camp free of charge for the regulated number of officers' horses, and for such hired horses as may be employed on the public service. For those hired horses there will also be supplied blankets, and surcingles and pads when required, as for horses which are public property.

Barrack stores in standing camp.

231. Such barrack stores as are necessary for troops when in a standing camp will be specially applied for to the Army Ordnance Department by commanding officers, and will be accounted for as directed in paragraph 219.

Mounted units proceeding by route march.

232. Mounted units proceeding by route march in the United Kingdom, require no camp equipment when the men and horses are billeted nightly. In cases where it is necessary to encamp during the march, officers commanding units will make requisition, previous to marching, for the camp equipment they require, being guided generally by the proportions laid down for "manœuvres," but demanding only such articles as are absolutely necessary.

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233. To prevent the great injury which arises from damp and mildew, all tents, blankets, nosebags, sheepskins, canvas and leather buckets, and other canvas, linen, cotton, woollen, or leather articles which have become wet while in use, will be thoroughly dried, and cleaned as far as possible by the troops, before being returned into store. All articles to be thoroughly dried before being given into store.

234. Camp kettles and other articles liable to injury from rust, will also be dried and cleaned by the troops before being sent into store. Camp kettle to be cleaned.

235. When troops under canvas have to march on immediate orders, the chief ordnance officer will confer with the officer commanding the troops as to the steps which should be taken for the drying and cleaning of the camp equipment, prior to its being returned into store on the breaking up of the camp. Troops under canvas moving.

236. The chief ordnance officer will bring to the notice of the officer commanding the troops any instance in which the camp equipment is not returned into store in a proper state, due allowance being made for fair wear and tear. Officer commanding to be informed of irregularities.

237. Four used circular tents may be supplied to each regiment of cavalry, battalion of infantry, and each regimental district requiring them, for the purpose of instruction in pitching and striking. Batteries of horse and field artillery, and units of Royal Engineers are allowed two tents; companies of garrison artillery and companies of the Army Service Corps, and Army Ordnance Corps, one tent each. Headquarters of companies of Medical Staff Corps will be supplied with one circular tent, and one marquee each. Unserviceable articles will be utilized. These tents will be brought on charge in the equipment ledgers, and will be dealt with as equipment. Tents for instruction in pitching and striking.

238. To carry out the instructions in "field training," referred to in the "Infantry Drill," Part X, ten "kettles, camp, oval, twelve quarts," may, when required, be drawn from the Army Ordnance Department by each battalion for the use of the company struck off duty. For cavalry, ten "kettles, camp, oval, twelve quarts"; six "axes, pick, 6½ lbs.," and "six spades N.P." may be issued for each regiment. For Medical Staff Corps each headquarters of companies will be supplied with three "ketties, camp, oval, twelve quarts"; three "axes, pick 6½ lbs."; "one hook, bill"; one bundle of brushwood pickets; one pair cacolets; one pack saddle complete; and "four spades N.P." They will be brought to account in the equipment ledger in the usual manner. On change of station these stores, together with those specified in paragraph 237, will be handed over to the incoming unit. Supply of camp kettles, &c., for instruction.

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M.S. Corps
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239. The articles detailed below will be issued in addition to the tents and tools authorised to be supplied for instructional purposes by paragraphs 223, 237 and 238. Additional articles for instruction.

Cordage	white, 3-strand, ¾-in., 4 ft. long .... pieces	20
	tarred, 1½-in., 20 ft. long .... „	20
Spars, wood, 12 ft.		6

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These articles will be issued on the terms stated in paragraphs 237 and 238.

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Picketing gear for cavalry.

240. The articles detailed below, sufficient for one squadron, will be issued, if required, to each regiment of cavalry for instructional purposes, in addition to the tents allowed by paragraph 237:—

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Cavalry
70

	For a regiment not on the Higher Establishment.	For a regiment on the Higher Establishment.
Mallets, heel peg	10	12
Pegs, picketing	206	270
Ropes { head	98	128
Ropes { heel	98	128
Ropes { „ double shackle*	—	—
Ropes { picketing, 4 ft. 9 ins.	98	128
Corn sacks, small	98	128
Nets, forage..	98	128

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Cav.
88

* 15 per cent. of the number of horses.

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Cav.
88

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Allowances.
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SECTION XI.—ARTIFICERS' AND WORKSHOP TOOLS.

I.—ARTIFICERS' TOOLS.

Supply of boxes and tools for armourers.

241. An armourer's box with tools (as detailed in Appendix IV) will be supplied to each unit provided with an armourer serjeant. These articles will be kept up by the armourer serjeant and will be inspected quarterly by a competent person under the orders of the commanding officer, who will certify in the equipment accounts that this service has been performed. A special examination of the box and tools will be made on the transfer of these articles from one armourer serjeant to another, to ensure their being handed over in a complete and efficient state.

Instructions for packing armourers' tools, &c.

242. Instructions for packing armourers' tools and spare parts of small arms, to be carried out by units on embarkation for distant stations abroad, are printed in the Instructions for Armourers. These directions do not apply to troops proceeding to the Mediterranean, West Indies, British North America, or Bermuda.

Tools for regimental artificers.

243. Tools supplied for the use of regimental artificers in repairing the service equipments or armaments, or for the general service of the army, are not to be employed for private purposes. Lists of tools for repair of the service equipments or armaments are given in the several details of Cavalry, Royal Artillery, and Royal Engineers, Part 2, and of tools for general service in Appendix V.

Tools for Pioneers.

244. A set of pioneers' tools and appointments is issued for each service squadron of cavalry, including Household Cavalry, and each battalion of infantry. These tools are described in the Cavalry and Infantry Details, in Part 2.

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II.—TOOLS FOR MILITARY WORKSHOPS.

38407 Allowances.

556 Issue to cavalry, infantry, and head-quarters R.A.

245. With the view of encouraging the employment of soldiers in trades, sets of tools will be supplied to regiments of cavalry, battalions of infantry, and principal stations of Royal Artillery at the public expense, under the special sanction of the War Office in each case, and subject to the following conditions:—

Conditions of issue.

a. That there are qualified tradesmen to use them.

b. That they remain in charge of the unit to which they are issued, and are only returned to store on the authority of the War Office, obtained through the General Officer Commanding; and on the understanding that the unit so returning them will be charged with the difference between their original cost, and their actual value at the time of their receipt into store.

c. That they be kept in order, repaired, or replaced when lost, or worn out by use, at the cost of the unit.

d. That articles required to replace any of those issued, be demanded of the Army Ordnance Department, in order to ensure uniformity of pattern.

Lists of these tools will be found in Appendix V.

Inspection of tools.

246. Commanding officers will direct an inspection of the tools to be made quarterly; and will certify in the ledgers in which they are brought on charge, that this service has been performed.

Accounting for tools issued to R.A.

247. When tools are issued to the Royal Artillery, under paragraph 245, they will be accounted for by the officer commanding the depôt company; or, where no depôt company exists, by the officer commanding a service company to be detailed by the officer commanding Royal Artillery in the district, in accordance with Part 2, Section XII.

Not allowed to Regimental Districts.

248. Tools for trades will not be allowed to regimental districts.

SECTION XII.—SIGNALLING EQUIPMENT AND MEKOMETERS.

I.—SIGNALLING EQUIPMENT.

Stores, requisitions for.

249. Requisitions, in duplicate, on Army Form G 997, for the stores that constitute the signalling equipment as laid down in the several corps details, Part 2, will be sent to the chief ordnance officer.

Supplies.

250. These supplies will be confined to regiments of cavalry, battalions of infantry, batteries and companies of artillery, the St. Helena and Sierra Leone detachments of artillery, and units of Royal Engineers. They will not be supplied to regimental districts. Heliographs and lime-light apparatus will not be taken to India; but will be returned to the Army Ordnance Department before the

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survey required by paragraph 83 is held. A complete set of signalling equipment will be held on station charge at Jamaica and at St. Lucia, for use in case of necessity.

Cancelled. **251.**

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Signallers

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251A. The stores to be drawn for use at the School of Signalling will be detailed in Part 2, Section VIIA.

II.—MEKOMETERS.

Supplies.

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Instructions.

252. Mekometers will be supplied to batteries of horse and field artillery, field companies Royal Engineers, and battalions of infantry as shown in the several corps details.

253. Instructions as to Mekometers will be found in the "Manual for the Mekometer."

SECTION XIII.—LITHOGRAPHS.

Lithographs.

254. Lithographs of warlike matériel prepared in the manufacturing departments, Royal Arsenal, Woolwich, are issued as under :—

	R.L. and R.G.F. only.	R.C.D., R.L., and R.G.F.		
	To officers commanding R.A., for instructional purposes.	To officers commanding R.A. districts for reference.	To ordnance officers for departmental use.	To commanding R.E., as from time to time selected.
Home.	Of each.	Of each.	Of each.	Of each.
Aldershot	1	1	...	1
Aldershot { North Camp ...	...	...	...	1
Aldershot { South Camp ...	...	...	...	1
Belfast	...	...	...	1
Birmingham	...	...	...	1
Brighton	...	...	...	1
Chatham	...	...	2	1
Chester	...	...	1	...
Colchester	1	1	...	1
Cork	1	1	1	1
Curragh	...	...	...	1
Devonport	1	...	2	1
Dover	1	1	1	1
Dublin	1	1	1	1
Edinburgh...	...	1	1	1
Exeter	...	...	...	1
Gosport	1	...	...	1
Gravesend	...	...	...	1
Guernsey	...	1	...	1
Harwich	...	...	1	...
Inverness	...	...	...	1
Ipswich	1	...	...	...
Isle of Wight	...	...	...	1

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	R.L. and R.G.F. only.	R.C.D., R.L., and R.G.F.		
	To officers commanding R.A., for instructional purposes.	To officers commanding R.A. districts for reference.	To ordnance officers for departmental use.	To commanding R.E., as from time to time selected.
Home—contd.	Of each.	Of each.	Of each.	Of each.
Jersey	...	1	...	1
Leith Fort	1	...	...	...
Liverpool	1	...	...	1
London	...	...	...	1
Londonderry	...	1	...	...
North-Eastern District (York)	...	1	...	1
North-Western District (Chester)	...	1	...	...
Newbridge	1	...	...	...
Newcastle	1	...	...	1
Pembroke	1	1	1	1
Plymouth	...	...	...	1
Portsea	...	...	...	1
Portsmouth	1	...	3	...
Sheerness	1	1	1	1
Sheffield	1	...	...	...
Shoeburyness	1	...	...	1
Shorncliffe	1	...	...	1
Southern District (Portsmouth)	...	1	...	1
Sunderland	1	...	...	...
Weedon	1	...	1	...
Western District (Devonport)	...	1	...	1
Western Forts (Isle of Wight)	1	...	...	...
Weymouth	1	...	...	1
Woolwich	1 for each district (Horse, Field and Garrison).	1	...	1
Yarmouth	1	...	...	...
York	...	...	1	1
Abroad.				
Barbados	...	1	...	1
Bermuda	1	1	1	1
Cape Town	1	1	1	1
Ceylon, Colombo	1	1	1	1
Cyprus	...	...	...	1
Egypt	...	...	...	1
Gibraltar	1	1	1	1
Halifax, N.S.	1	1	1	1
Hong Kong	1	1	1	1
Jamaica	...	1	1	1
Malta	1	1	1	1
Mauritius	...	1	1	1
Natal	...	...	...	1
Sierra Leone	...	...	...	1
St. Helena	...	1	1	1
Straits Settlements	1	1	...	1
Commandant, School of Military Engineering	...	...	...	3

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255. The issue of lithographs to officers and departments, not specified in the foregoing table, will be specially provided for. Other services.

256. Quarterly lists of lithographs added to the series are published in the Lists of Changes in War Matériel. Quarterly lists.

257. Text books, hand books and range tables will be issued as laid down in Part 2, Artillery Special Instructions and Details. Text books, hand books, and range tables.

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SECTION XIV.—MISCELLANEOUS STORES.

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Allowances.
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Pace sticks, and other articles.

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259. Pace sticks, ropes for drill, saluting flags, regimental camp colours, letter bags, metronomes with stands, cleaning materials for offices, and other miscellaneous stores, will be provided out of the Allowance for Miscellaneous Stores, granted by the Allowance Regulations.

Box, school materials.

260. One "chest, school materials," will be supplied to each regiment of cavalry and battalion of infantry.

261. One "box, schoolmaster," will be issued to every schoolmaster on appointment. This box will be renewable after 12 years, if unserviceable. It will be accounted for by the staff (or other) officer under whom the schoolmaster is serving.

Instruments for field sketching.

262. A set of instruments for instruction of non-commissioned officers in field sketching and reconnaissance will be issued to each regiment of cavalry and battalion of infantry. They will not be taken to India, but will be returned to the Army Ordnance Department before the survey, required by paragraph 83, is held.

Stationery articles.

263. The necessary colours, brushes, papers, pencils, cardboard, string, indiarubber, and other articles of stationery will be supplied, on receipt of a requisition from units, on Army Form L 1380.

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Devonport
6717

263A. A blackboard and easel, complete, for instruction of non-commissioned officers and men of the Medical Staff Corps in various technical subjects, will, except to A and B Companies, be issued to the head-quarters of the several companies, and to the undermentioned detachments at home and abroad :—

Home.	*Abroad.*	
Gosport.	Pietermaritzburg,	South Africa.
Shorncliffe.	Wynberg,	
	Cape Town.	
	Hong Kong.	
	Gibraltar.	
	Valetta,	Malta.
	Cottonera,	
	Alexandria,	Egypt.
	Cairo, .	

Stores for veterinary purposes.

264. Consumable stores for veterinary purposes will be issued quarterly in the proportions given in the following table on the requisition of the veterinary officer in charge of the unit, countersigned by the commanding officer of each unit concerned. The requisition will be made on Army Form G 1027. It will state the number of horses for which the stores are required, and will show any articles remaining unexpended at the time. These stores will not be accounted for in the equipment ledgers, but will be a final issue from the Army Ordnance Department, and the issue voucher upon which they are charged will be signed by the veterinary officer only. The proportions of blankets, and of pads and surcingles when required, allowed for sick horses will form part of the equipment of the unit, and be included in the equipment ledger.

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CONSUMABLE STORES FOR VETERINARY PURPOSES.

3 Months Supply.	Per 100 Horses.
Woolwich Store Charge 3.	
Flannel, old (for fomentations) .... lbs.	7½
Woolwich Store Charge 5.	
Numnahs, old (for foot swabs)	2
Sponges, G.S.	2*
Woolwich Store Charge 8.	
Pins, mixed .... oz.	¼
Woolwich Store Charge 11.	
Corks, assorted	6
Woolwich Store Charge 18.	
Canvas, packing, Hessian, 47 inch (for poultices) yds.	2
Tow { coarse .... lbs.	2
Tow { fine .... „	1
Twine, packing, small .... oz.	1
Woolwich Store Charge 27.	
Tape, white, ¾-inch .... pieces	1*
Woolwich Store Charge 22.	
Paper { brown, common (for packing) .... quires	¼
Paper { white, fine (for balls) .... „	¼
Woolwich Store Charge 27.	
Bandages, horse....	6
Linen, unbleached (for bandages) .... yds.	3
Woolwich Store Charge 26.	
Blankets, grey, worn out { "A" (Remount) Co. A.S.C.	50†
Blankets, grey, worn out { "B" „ „ „	50†

* To be drawn at these rates every six months only.
† These are the total quantities to be drawn for each company annually.

Soap.

A.O. 29 1897

264A. Soap for the personal use of soldiers will be supplied by the Army Ordnance Department, will be demanded by the piece (each bar of soap contains four pieces) and will be accounted for in the regimental equipment ledger.

One piece will be supplied to every soldier entitled to a free kit of necessaries under the Clothing Regulations, and will be kept up afterwards at his expense as part of his kit.

Supplies required for use on board ship will be provided regimentally, and will be paid for out of the advance of pay.

Soap will be supplied on payment at the published rates: credit will be given in Army Form P 1963 for the total number of pieces issued on payment.

WAGONS.

Cancelled, see paragraph 41.

265.

Footboards to be fastened up.

265A. When driving the undermentioned wagons, otherwise than by long rein, or turning them when in store, footboards will be fastened up to prevent the stays being wrenched away.

Ammunition and store, R.A., Mark II.
G.S., { Marks III. and IV. / R.E.
Light, spring, surgery,

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SECTION XV.—STORES FOR THE INSTRUCTION OF TROOPS IN MILITARY ENGINEERING.

A. O. 9. 1897 Proportion for Military Districts.

265B. Proportions of sets of tools and stores for instruction in military engineering, as detailed in Appendix XI, are laid down for military districts, as follows :—

Stations.	Companies, Royal Engineers.	Battalions of Infantry.
North-Eastern District	...	2
North-Western ,,	...	2
Eastern District	...	2
Western ,,	...	3
Southern ,,	1	4
South-Eastern District	1	3
Home District	...	1
Woolwich District	1	1
Aldershot ,,	3	5
Scottish ,,	...	1
Jersey	...	1
Guernsey	...	1
Ireland :—		
Belfast District	...	2
Dublin ,,	...	4
Curragh ,,	1	2
Cork ,,	1	3
Barbados	...	1*
Jamaica	1†	1
Halifax	1	1
Bermuda	1	1
Malta	1	4
Gibraltar	2	2
South Africa	1	1
Natal	...	1
Mauritius	1	1*
Hong Kong	1	1
Straits Settlement	½	1
St. Lucia	...	1
Ceylon	½	1*
Egypt	1	...
Total	19	53

54 Engineers. 9492

54 Engineers 9492

* Special sets are authorised for these stations, see Appendix XI.
† For West India Fortress Company, R.E. (Jamaica, St. Lucia, and Sierra Leone).

Horse or field artillery and cavalry.

265C. The proportion authorised for a battery of horse or field artillery is given in Appendix XII. The issue will be restricted at Aldershot to one battery. The instruction to be conveyed by these stores embraces the construction of bridges, derricks, jetties, rafts, epaulments, gun pits, &c. The proportion given in Appendix XIII, is the supply authorised for a regiment of cavalry.

Demands.

57 Devonport 6556

265D. Annual demands to complete the establishment of these tools and stores will be sent, by the 1st August, by the district commanding Royal Engineer, to the chief ordnance officer, in duplicate, on Army Form G 989. Supplementary demands, when necessary, will be put forward in similar manner.

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A.O. 9. 1896.

When it becomes necessary to procure any of the articles locally, the purchase will be effected under the authority of the chief ordnance officer.

Issues on inventory.

265E. Staff officers for instruction, battalions of infantry, and cavalry pioneers, will be supplied with the necessary tools and materials for military engineering, and for the repair of rifle butts and ranges, from the stock in charge of the sub-district commanding Royal Engineer concerned. The articles so supplied will be entered on inventories (Army Form G 989). The necessary instruments will also be supplied, on inventory, by the commanding Royal Engineer to staff officers for instruction, from the stock in his charge; except in the case of the Thames District, where the supply will be met by the commandant, School of Military Engineering. All articles, thus supplied on inventory, will remain in charge of the sub-district commanding Royal Engineer who makes the supply.

Local purchase for staff officers for instruction.

265F. If any materials, or tools, that may be specially and immediately required by staff officers for instruction in carrying on their duties, cannot be supplied by the Army Ordnance Department, they may be purchased locally by the ordnance officer, upon the requisition of the staff officers for instruction, approved by the commanding Royal Engineer. But such special local purchases will not exceed the value of 5*l.* annually for each instructor.

Stores for visual signalling.

265G. Stores, for the purpose of effecting communication by means of visual signalling between different posts in fortresses, and military stations, will be issued upon an establishment drawn up for the station concerned; which establishment must have received War Office approval before issues are made. The stores, when issued, will be in charge of sub-district commanding Royal Engineers concerned, and will be held on inventory by the troops using them.

265H. Application for all necessary transport, required in transferring the tools and materials from one corps to another, will be made by the sub district commanding Royal Engineer.

SECTION XVI.—MARKING EQUIPMENT.

I.—GENERAL INSTRUCTIONS.

Stamps for marking.

266. Stamps are supplied to the various services requiring them, for marking arms, accoutrements, harness, and saddlery. The adoption of an unauthorised method of marking, or the employment of stamps differing from the standard patterns, will render a unit liable to charges for damage.

Permanent marking limited.

267. With the exception of articles of equipment for man and horse, stores issued for the service of the troops are not to receive any indelible corps marks which would render them unfit for re-issue. Should it be found, on such articles being returned into store, that they have been so defaced, the cost of the articles will be charged against the unit for whose use they were issued.

Articles temporarily supplied not to be marked.

268. Articles of equipment supplied from time to time for temporary purposes will not receive corps marks; with the exception

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of extra service accoutrements supplied to corps and regimental districts in excess of their regulated strength.

How marked for detachments.

269. Should additional equipment be issued to detachments (*see* paragraph 93), the marking will be from 1 upwards, but with the prefix 0. The marking would thus read 01, 02, 03.

Equipment marked by artificers.

270. As a general rule the service of marking the equipments is performed, free of charge, by the paid regimental artificers, as part of their duty. Money allowances are, however, granted for marking artillery stores connected with armaments, accoutrements and musical instruments in certain cases, and squad bags when first issued. The allowances for marking accoutrements and squad bags cover both labour and the ink or paint required.

Marking baggage.

271. The paint required for marking baggage (*see* Queen's Regulations) may be purchased by commanding officers as required, the charge being supported by a certificate stating the number of packages marked.

Branding irons.

272. Branding irons will be supplied to all mounted corps, as shown in the several corps details.

Cancelled.

273.

II.—MARKING ARTILLERY STORES, &c.

(*See also Appendix X.*)

Marking and painting handles of tools, &c.

274. All side arms, handspikes, levers, as well as the handles of all intrenching tools, and other articles required for manual labour, will be left unpainted. When it is necessary to mark these articles, they will be lettered in paint, with the distinguishing marks of the unit to which they respectively belong.

Marking armaments.

275. One gun, one carriage, one slide, and one pile of shot or shells in each battery, will be marked with the date of painting; and, in the event of its being necessary to exchange any guns, or other stores connected therewith, in permanent works before the next periodical painting takes place, those received will be marked with the date when last painted, so that the record may be accurately kept. The marking will be of the simplest kind, as, for example, "12/96," signifying that the painting was performed in December, 1896.

Example.

Allowance for marking.

276. Three halfpence per hour will be allowed for this service, except when such marking is performed by means of stencil plates, in which case no allowance will be sanctioned.

Marks included in reports.

277. The marks and numbers on stores of all natures, and every kind of projectile and fuze, on guns and artillery carriages, as also on all carriages forming the equipment of units, will be noted in all reports relating to the repair, alteration, and condemnation of such stores, in order that the date of manufacture may be readily ascertained.

III.—MARKING ARMS.

Marks before issue.

278. All arms, except those for mobilization, are issued to the troops marked with the month and year of issue. Full instructions as to all other marking will be found in the Regulations for Army Ordnance Service.

Care should be taken that the marks on the arms are not too deeply stamped.

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When an armourer serjeant is not available.

279. In cases where the services of an armourer serjeant are not available for marking the arms, commanding officers, in making requisitions on the Army Ordnance Department, will state the particulars of the corps marks and numbers that should be placed upon the articles.

Additional stamps lent when required.

280. Stamps for marking swords, and sword-scabbards, will be lent to dismounted services, by the Army Ordnance Department.

Issues to replace others.

281. Arms, issued to replace others, will be given the numbers of the articles replaced.

IV.—MARKING ACCOUTREMENTS.

Nature and position of marks.

282. All accoutrements, except those for mobilization, will be marked by the Army Ordnance Department before issue with the year of issue, beneath the W.D. and broad arrow of the War Department. When received by the troops, they will be further marked, before being taken into use, to correspond with the arms. Accoutrements that have been in use, and are re-issued, will be marked by the Army Ordnance Department before re-issue, black equipment, with the letter W. and the month and year of re-issue; buff equipment, with the month and year of re-issue only in red ink.

54
Gen. No. 6552

Marking part-worn articles.

283. When part-worn articles are returned into store, they will be marked by the ordnance officer at the station with the month and year of return.

Marking "extra service" accoutrements.

284. Accoutrements supplied for men in excess of the regulated establishments will be marked by the unit with consecutive numbers and the distinguishing corps marks, valises being marked inside only. Such accoutrements when returned to store will be available for re-issue to any service as part-worn articles, and will be then further marked as directed in paragraph 282.

Stamps for marking.

285. Buff accoutrements will be marked with $\frac{1}{2}$-in. inlaid copper stamps in mounted units, and with $\frac{1}{4}$-in. brass or gunmetal stamps on wood ($\frac{3}{16}$-in. for terminal letters for infantry only) in dismounted units, as shown in the several corps details, marking ink being used in each case for the purpose. Black or brown accoutrements will be marked with $\frac{1}{4}$-in. steel stamps, for wood, care being taken that the leather is not cut, but merely indented. Branding the accoutrements is strictly prohibited. (*See* also paragraph 267.)

Branding prohibited.

Marking Italian pattern water-bottles.

286. The wood water-bottle of the Italian pattern will not be painted or lettered. In dismounted units it will be marked on the upper edge with the stamps supplied for marking wood, and in mounted units with the stamps for wood, $\frac{5}{32}$-in. where stamps for marking arms are supplied. Where such stamps are not supplied $\frac{1}{4}$-in. stamps should be used.

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Enamelled iron water bottles.

287. Enamelled iron water-bottles will be marked with corps marks only, in the centre and on the side of the felt cover which is exposed to view when the bottle is worn. The marking will be done with $\frac{1}{2}$-in. copper inlaid stamps, and "ink, marking, woollens." The buff strip, or chain, for securing the cork will be worn facing the rear. If, when returned to store with corps marks on them, the water-bottles are considered fit for re-issue, the felt covers will be taken off by the Army Ordnance Department, turned, and resewn.

Carriages for water-bottles.

38407 Equipt. 1817

288. The carriages or straps for water bottles will be marked in the same manner as accoutrements.

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Intrenching implements.

289. The intrenching implements, pickaxe and shovel, will be marked on the wood handle on the side next the man's body as it hangs, with the stamps supplied for marking wood.

Marking valises.

290. The canvas, inside the outer flap of the valise, will be marked in marking ink, with the same marks as the other accoutrements, by means of the metal stamps supplied. In the case of units wearing the infantry valise, the territorial name or letters will be marked by stencilling, on the outside of the flap.

Nature of marks.

291. The battalion number and county name or letters will be placed as nearly as possible across the centre of the valise, thus :—

1. LOTHIAN. 2. E. KENT. 3. WARWICK.

Position of marks when initials only are used.

292. But where initial letters only are used, care will be taken to place the battalion number on the left of the central strap which passes over the flap, and the regimental letters on the right, leaving a space between for the strap, thus :—

1. | | R.F. 2. | | R.I. 3. | | S.W.B.

Grenades and bugles.

293. The grenade, and bugle, used respectively with fusilier and light infantry regiments will be placed to the left of the numeral.

Size of letters and numerals.

294. The initial letters and numerals are $\frac{3}{16}$-in. high; the terminal and other letters $\frac{5}{8}$-in. high.

Regimental depôts.

295. The valises of regimental depôts will not be marked on the outer flap. They will be marked on the inside only with marking ink.

R.A., R.E., A.S.C. and Departmental Corps.

296. Valises issued to the Royal Artillery, Royal Engineers, Army Service Corps, and Departmental Corps will be marked on the outside, by means of stencilling, with corps marks, as in the following examples :—

ROYAL ARTILLERY.

(*a.*) *On the outside of the flap.*

R. | | A.

N.B.—To ensure uniformity in appearance, the letters should be placed equidistant between the two loops on the flap.

(*b.*) *On the back of the Valise.*

10	S	....	No. 10 Company, Southern Division.
Dep.	S	....	Depôt Company, Southern Division.
Dep. (1)	S	....	1 Sub-Depôt Company, Southern Division.
D	S	....	Regimental District Staff.
S	DE	....	Southern District Establishment.
SCO	DE	....	Scottish District Establishment.

Bermuda Company, Royal Artillery	....	B. Co.	R.A.
Ceylon Company, Royal Artillery	....	C. Co.	R.A.
Hong Kong Company, Royal Artillery	....	H. K. Co.	R.A.
Jamaica Company, Royal Artillery	....	J. Co.	R.A.
Mauritius Company, Royal Artillery	....	M. Co.	R.A.
Sierra Leone Company, Royal Artillery	....	S. L. Co.	R.A.
Singapore Company, Royal Artillery	....	S. Co.	R.A.
St. Lucia Company, Royal Artillery	....	St. L. Co.	R.A.
St. Helena { Emergent Detachments }	....	St. H.	R.A.
Sierra Leone { Royal Artillery }	....	S. L.	R.A.
School of Gunnery, Royal Artillery	....	S. G.	R.A.

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Thames
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Where it is necessary to distinguish the particular company the numeral will be added thus :—

1 H. K. Co. or 2 H. K. Co.

ROYAL ENGINEERS.
R | | E

ARMY SERVICE CORPS.
A | | SC

ARMY ORDNANCE CORPS.
A | | OC

MEDICAL STAFF CORPS.
M | | SC

ARMY PAY CORPS.
A | | PC

297. For all dismounted units except rifle battalions, the flap will be marked with white paint, and for rifle battalions with green paint. Paint to be used.

White paint of the following composition should be used :—

Lead, white, ground in oil	4 lbs.
Gold, size	½ gill.
Turpentine	¼ gill.

The marking with this mixture will dry, in an ordinary store, in about eight hours.

Paint, green, Brunswick, ground in oil, 4 lbs., for outside flap of valises in possession of rifle regiments.

In marking the valise the brush should be used almost dry with the paint thick. The flap should be laid flat upon a hard smooth surface, and the paint dabbed in, the brush being held vertically, and on no account worked across the stencil-plate. The back of the plate should be kept clear of paint with a turpentine rag, and the face also occasionally wiped with the rag to prevent an accumulation of paint. Method of marking valises.

298. The whistles of infantry will be marked on one side of the acorn with the territorial letters or regimental district number, and on the other side with the number of the whistle, from 1 upwards. The battalion numeral will be dispensed with. The whistles of serjeants of Royal Engineers will be marked in the same manner as their arms. For the purpose of marking, the steel stamps for metal in possession of armourer serjeants, for marking small arms, will be employed. Marking whistles.

299. Stamps will not be supplied specially to mounted services for marking accoutrements, some of the stamps issued for marking the saddlery and harness being suitable for this purpose also. No special stamps for mounted services.

300. The undermentioned allowances are granted for marking accoutrements of dismounted units under the conditions stated :— Allowances for marking.

	s.	d.
a. For every 300 Italian pattern water bottles, intrenching implements, or carriages, frogs, and loops for the same, and caps, cases, frogs, and straps for pioneers' tools	0	9

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6402

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	s.	d.
b. For every 300 of the articles of valise equipment detailed below, in the case of corps receiving a new equipment, viz., waist belts, braces, pouches, straps, carriages drum, frogs sword, and sword bayonet, loops dirk, slings (rifle and carbine), and the insides of the flaps of valises	0	9
c. For marking the outside of the valise flap in white paint with the stencil plate and brush, or for renewing the same when worn off	0	1
54 Gen. No. 6794 *d.* For the felt coverings of every eight enamelled iron water-bottles (*see* paragraph 287), inclusive of cost of ink	0	2
e. For removing old marking of valise flap when necessary (which may be done with a rag wetted with methylated spirits) including cost of spirits	0	0½
Allowances for marking ink. *f.* Annually for the purchase of marking ink required for use with the metal stamps. (*See* paragraph 285.)		
Battalion	2	0
Regimental depôt .... Depôt of Medical Staff Corps .... Dismounted depôt company of Army Service Corps	1	0
Company of Garrison Artillery	0	9
District Establishment Artillery .... Unit of Royal Engineers (except mounted units).... .... Company of Army Ordnance Corps	0	6

Rates for artillery valises. 54 Gen. No. 6832

301. In calculating claims for marking artillery valises, the stencilling of both back and front marks will be considered as two markings. The same consideration will also guide claims for removing old marks when necessary.

To be charged in pay list.

302. These allowances will be charged in the company pay lists, and will be vouched in each case by a certificate showing the number and description of articles marked, the date of their issue, and from what ordnance depôt they have been issued.

V.—MARKING MUSICAL INSTRUMENTS.

Allowances for engraving the marks.

303. When the services of an armourer-serjeant are not available, a charge of 3*d.* will be allowed for engraving each bugle, trumpet and drum; and a charge of ½*d.* per letter or figure for flutes and piccolos, which will be engraved, not stamped, on the ivory top of each, in consecutive numbers, from one up to the number in possession, and also with the number of the unit in the manner approved for marking the arms.

Practice drum stamped.

304. The silent drum for practice will be marked on the cloth on the under side, with the same stamps as are used for accoutrements.

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VI.—MARKING HARNESS AND SADDLERY.

305. All new articles of harness and saddlery, except those issued for mobilization purposes, of $\frac{3}{4}$-in. or more in width, will be marked by the Army Ordnance Department, before issue to the troops, with the month and last two figures of the year of issue, beneath the W.D. and the broad arrow. Articles that have been in use will, when first re-issued for a further period of wear, be again marked by the Army Ordnance Department, with the month and year of issue as above, and with the letter W. showing that they have been in wear before. The date being stamped close under the part-worn mark. Marking by Army Ordnance Department.

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6552

306. Harness and saddlery when received by the troops for peace use, will be stamped with the distinguishing marks of the corps. The sets will be numbered consecutively, harness and saddlery being given different series of numbers. As articles common to both harness and saddlery will be distinguished only by the position of the set number, care must be taken to place the number correctly. Order of marking.

In batteries of artillery the numbering will be by sub-divisions, and in the cavalry by squadrons, as in the specimens given below. Artillery and cavalry.

In other units there will be, for the entire establishment, one series of numbers for sets of universal saddlery, another for sets of officers' saddlery, and a third for single sets of harness. The numbers being placed on saddlery vertically under the corps marks; and on harness in the same line with, and following, corps, or sub-divisional marks, as in the specimens given below. Other units.

In every case the head and neck collars will be marked with the number of the horse instead of that of the set. Head and neck collar.

Horse Artillery.

I	I Battery.
R.H.A.	Royal Horse Artillery.
1	No. 1 Sub-division.
4	No. 4 set of saddlery.
I	I Battery.
R.H.A.	Royal Horse Artillery.
2. 3.	No. 2 Sub-division. No. 3 single set of harness.

Field Artillery.

37. R.A.	37th Field Battery, Royal Artillery.
O. 1	Officers' No. 1 set of saddlery.
37. R.A.	37th Field Battery, Royal Artillery.
3	No. 3 Sub-division.
1	No. 1 set of saddlery.
37. R.A.	37th Field Battery, Royal Artillery.
1. 3.	No. 1 Sub-division. No. 3 single set of harness.

Cavalry.

1. L.G.	1st Life Guards.
A	A Squadron.
2	No. 2 set of saddlery.
5. L.	5th Lancers.
B. 1.	B Squadron. No. 1 single set of harness.

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Royal Engineers.

T.B.—R.E.—4	Telegraph Battalion.	No. 4 set of harness.
T.B.—R.E. / 4	Telegraph Battalion.	No. 4 set of universal saddlery.
T.B.—R.E. / O. 2	Telegraph Battalion.	No. 2 set of officers' saddlery.

Army Service Corps.

10—A.S.C. 4	No. 10 company Army Service Corps.	No 4 single set of harness.
10—A.S.C. / 4	No. 10 company Army Service Corps.	No. 4 set of universal saddlery.
10—A.S.C. / O. 4	No. 10 company Army Service Corps.	No. 4 set of officers' saddlery.

On transfer. **307.** If, on a transfer of harness or saddlery, any of the sets transferred be found to bear numbers already on the harness or saddlery on charge, the articles will be renumbered, either with the numbers of sets transferred from charge, or as additions to the establishment.

Regimental transport for peace. 57 Devonport 6120 **308.** The harness and saddlery of each set of regimental transport will be marked before issue, by the Army Ordnance Department according to the principles laid down in paragraph 306, except that a distinguishing "index number," instead of the "corps marks" is to be assigned to the sets, thus:—

$$15\,\text{R.T.}\,3, \text{ or } \frac{15\,\text{R.T.}}{3}$$

where 15 is the index number, and 3 the set of harness or saddlery.

Stamping leather. **309.** The leather work will be marked with $\frac{3}{16}$-in. steel stamps immediately under the army ordnance department mark of month and year of issue.

Stamping iron work. **310.** The iron work will be marked with $\frac{1}{8}$-in. steel stamps for metal, the portmouth bit in front of the port, the bridoon bit on top of the mouthpiece, and the stirrup irons on the bottom.

Marking sheepskins, &c. 54 Gen. No. 6491 **311.** Sheepskins, nosebags, corn-sacks, and corn-bags will be marked with marking ink; saddle-blankets and horse-blankets (veterinary stores) with the "mixture, stamping woollens." Stamps, copper, inlaid, $\frac{1}{2}$-inch, will be used, and the marking will be placed immediately under the War Department store mark.

VII.—MARKING SQUAD BAGS.

Marking exemplified. **312.** Each squad bag will be marked on the outside of the upper flap with the initial letter of the company or squadron, the number or appellation of the battalion or regiment, and the month and year in which the squad bag was first issued from the quartermaster's stores.

The following will exemplify the mode of marking :—

B. 4/D. Gs.	D. 2/Gd. Gds.	A. 1/Manch.
1/1897	1/1897.	1/1897.

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313. The squad bags will be marked with black paint. The figures and capital letters will be 1½ ins. in length. Paint, size of letters, &c.

314. The sum of fourpence for each squad bag so marked on first issue will be allowed; the amount will be charged in the accounts of the unit, vouched by the usual receipt of the person who executed the work, and certified by the officer commanding. Allowance for marking.

VIII.—MARKING REGIMENTAL DEPOT EQUIPMENT.

315. In regimental depôts the arms, accoutrements, except those stored for reservists, musical instruments, and all articles enumerated as forming part of the equipment of a soldier, will be marked with the number of the regimental district to which they belong, followed by the letters R.D. The rifle depôts having no numbers, the equipment remaining on charge at such depôts will receive the territorial letter with the D following. Valises will not be marked on the outside, but on the inside only, in the way laid down in paragraph 290. Marking of equipment of regimental depôts.

SECTION XVII.—REPAIR AND PRESERVATION OF EQUIPMENT.

I.—GENERAL INSTRUCTIONS.

316. Commanding officers will not allow, or pay for the performance of, any work connected with equipments, or armaments, for which there is no regulated provision, without previous authority obtained, at home from the War Office, and at stations abroad from the General, or other Officer, Commanding. Unauthorised work prohibited.

317. Except when otherwise specified in these regulations, the repair, and painting, of all stores that can be performed by the regimental artificers will be executed by them, under the superintendence of their commanding officers, free of charge. The necessary tools and materials will be supplied by the public, or out of a money allowance granted for their purchase. Tables showing the time, working pay (when specially sanctioned), and materials, allowed for painting miscellaneous carts and wagons are given in Appendix VII. General repairs executed without charge by regimental artificers.

318. When any of the materials, detailed in Appendix VII., are required, the officer commanding in whose charge the equipment is, will certify to the repairs being necessary, and will annex such certificate to the demand for the materials made by him on the chief ordnance officer. The commanding officer will subsequently satisfy himself that the repairs or painting have been properly executed. O.C. to certify as to necessity for repairs.

319. The services of the regimental artificers will, when the duties of their own unit permit, and at the discretion of the General Officer Commanding, be made generally available for performing any work which they may be called upon to execute within the limits of their trades, and during working hours, for other units or detachments unprovided with artificers, or requiring the assistance of additional artificers in exceptional circumstances. Employment of regimental artificers for other unit.

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Repairs by the Army Ordnance Department.

320. Repairs, which cannot be executed by the regimental artificers, will be performed under the direction of the Army Ordnance Department, by the artificers attached to that department, or else in accordance with the directions given in paragraph 321.

Working pay and payments to contractors.

321. Whenever repairs, painting, or other services, involving the expenditure of working pay, or payments to contractors, are required in connection with the equipments of a unit, a requisition will be made by the commanding officer on the chief ordnance officer, stating the nature of the work required, and the cost at which it could be carried out by military tradesmen receiving the authorised rates of working pay, or by local contract.

How authorised.

322. The officer making the requisition will then be informed of the manner in which the service should be performed; and if it be decided to employ military tradesmen, he will, on the completion of the service, certify on the original requisition that the work has been efficiently carried out. The requisition so certified will then be attached to the working pay list as a voucher in support of payment.

Requisition certified.

Materials for repair may not be sold, or improperly appropriated.

323. Materials supplied for the repair and preservation of equipment will not be sold, or exchanged, or used for any equipments but those for which they were demanded; nor will any purchase of materials by commanding officers be sanctioned by General Officers Commanding, except in special cases which should be reported for covering approval.

Regulation of expenditure and method of accounting for materials for repairs, &c.

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324. In order to regulate the expenditure of the materials Army Books, 281 and 282 or 283, will be carefully kept by the units concerned, the ledger (Army Book 283) being balanced on the last day of February. The books will be periodically called for by the Chief Inspector of General Stores, Woolwich Dockyard, for examination and for testing the correctness of the proportions allowed. Stock will be taken every six months by an officer deputed by the commanding officer, and compared with the quantity received and the amount expended. The result will be reported to the commanding officer, who, if satisfied, will sign the store and shop books. Any deficiencies will be charged against the individuals responsible, and recovered on Army Form P 1963.

The regimental storekeeper will examine Army Book 281 weekly, and satisfy himself that the materials have been expended in work on the public service.

Materials are not to be used for manufacture.

325. Materials supplied for repairing equipment are intended solely for carrying out repairs. They will not, except under special authority, be used for the manufacture of new articles.

Materials in hand to be credited in requisition.

326. In making requisitions for materials for repairing equipment, commanding officers will certify on the requisition that credit has been given therein for any material remaining on hand, and that the quantities demanded, together with these, do not exceed the authorised proportion.

Responsibility for reserve arms at regimental depôts.

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Equip. 1768

327. The responsibility for the care and custody of reserve arms and accoutrements at the head quarters of regimental depôts lies with the officer commanding the regimental district. The non-commissioned officers of the permanent staff of Militia battalions will be placed in charge, and such arrangements will be made for the examination by them of the arms under their care as will ensure each individual one

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being inspected, and re-oiled on the outside, at least once in every three months. The insides of the barrels should be wiped out examined, and re-greased with the diluted composition referred to in paragraph 329, once in 18 months; but if any appearance of rust be observed in the muzzles at the quarterly inspections, such barrels should be immediately wiped out and well re-greased, steps being taken to have them at once examined by an armourer These reserve arms will also be periodically inspected by viewers detailed by the Chief Inspector of Small Arms in the same manner as those in use by the Militia battalions. 54 50 55

Cleaning and oiling for Army Reserve.

328. An allowance of 1*d.* per annum will be granted for cleaning and oiling each stand of arms, with set of accoutrements complete, kept in store at regimental depôts for issue to the Army Reserve, on the certificate of the officer commanding the regimental district that the service has been properly carried out, and that the arms and accoutrements are in a perfectly serviceable condition.

Materials supplied.

329. The annual allowance of materials for cleaning and oiling arms, and for their preservation, whilst kept in store at regimental district head quarters for issue to Army Reserve, will be as follows:—

Composition, preserving arms	galls. 2	For every 1,000 stand of M.L.M. arms.
Oil, Rangoon	galls. 1½	
Flannelette	yards 5	
Sheeting, old	lbs. 10	

54 50 55

The "composition, preserving arms" should be diluted with rangoon oil to about the consistency of cream (one part of composition to two parts of oil), and applied to the insides of barrels, and to the flannel portion of the armoury plugs. Rangoon oil, alone, will be used for the working parts of the action, and for the exterior of the barrels.

No materials are required for accoutrements.

II.—ARMS, ACCOUTREMENTS, MUSICAL INSTRUMENTS, HARNESS AND SADDLERY.

1. Arms.

Repair of interchangeable arms.

330. All the implements, stores, and chemical ingredients for browning interchangeable arms, as well as the materials for the repair of the same, are supplied at the public expense to units provided with armourer-serjeants. Oil and material for the preservation and cleaning of arms are supplied to all corps in posession of arms. Details of the stores supplied for repairing, browning, and preserving arms are printed in Appendix VIII. Instructions for the care, repair and browning, &c., of arms and bayonet scabbards, and a list of parts and materials to be carefully packed when regiments proceed on service abroad, are printed in the Instructions for Armourers, and will be supplied to all concerned.

Browning arms.

Care and repair of arms, &c.

Stripping and testing arms.

331. The stripping or removal of any part of the arm, except by the armourer serjeant, or a serjeant instructor who has been through a course of instruction at the Royal Small Arms Factory, Birmingham, is strictly forbidden. Should a commanding officer doubt whether arms of any description under his charge are serviceable, he will report the matter stating the reasons or his opinion; and his

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report will be forwarded to the War Office. If considered advisable, an examination of the arms in question by the Chief Inspector of Small Arms will then be authorized. The practice of testing weapons of any kind in charge of troops, except in pursuance of orders from head-quarters, is strictly forbidden.

Requisitions for, and issue of, materials.

332. When materials are required for the repair of arms, officers commanding squadrons or companies will certify to the repair being required, and upon such certificate the issue will be made by the quartermaster. The commanding officer will subsequently satisfy himself that the repairs have been executed.

Reports of inspection.

333. Armourer-serjeants will furnish officers commanding companies or detachments (liable to detached duties) with a detailed report of each inspection upon Army Form G 1048.

Annual examination and repair of arms in regimental districts. Commanding officers not relieved of responsibility.

334. The arms of regimental depôts will be examined annually by the localised armourer-serjeant referred to in paragraph 337. The armourer-serjeants will execute such repairs as are necessary, and re-brown such arms as may require it. This arrangement does not relieve commanding officers from responsibility as to the care and repair of the arms, and arrangements will be made by them for such general supervision of the work of the armourer-serjeants as will ensure its being properly carried out.

Intermediate and slight repairs.

335. The non-commissioned officers of the permanent staff of Militia battalions who have been through a course of instruction at the Royal Small-Arms Factory at Birmingham, will be available for the replacement of broken main-springs or strikers, and for the execution of such slight repairs as the arms are likely to require between the annual visits of the armourer serjeants. Should any arms require a more extensive repair than either the non-commissioned officer of the permanent staff or localised armourer serjeant in the district is able to execute, the officer commanding the regimental district will communicate with the chief ordnance officer, who will give instructions for the arms to be sent to the Royal Small-Arms Factory, Birmingham, to have the necessary repairs carried out.

Extensive repairs.

Corps with no armourer serjeant in United Kingdom.

336. The arms of a corps or detachment in the United Kingdom unprovided with an armourer serjeant will be dealt with, as far as practicable, in a similar manner to those of depôt companies.

Stations to which armourer serjeants are posted.

337. Circuit armourer-serjeants are posted to the following districts. They will be under the orders of the chief ordnance officer of the district in which they are stationed, excepting those shown as attached to Royal Artillery, and considered on the establishment of the Army Ordnance Department in that district :—

Scottish District.		Home District.	
N.E.	„	Southern	„
N.W.	„	Thames	„
Eastern	„	Guernsey.	
Western	„		

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Sub-stations to be visited by Armourer Serjeants.

338. The armourer serjeants will visit the several sub-stations, respectively, shown below under the districts to which they have been posted, and will also examine annually the arms of the Militia units in their circuits as laid down in the Militia Regulations. These circuits will be subject to alteration from time to time, as the conditions of the service may require :—

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List of Armourers' Circuits.

Scottish District, 3 *Armourers.*

Aberdeen.	Dingwall.	Hamilton.
Alnwick.	Dumfries.	Inverness.
Ayr.	Dunbar.	Montrose.
Berwick.	Edinburgh.	Paisley.
Campbeltown.	Fort George.	Perth.
Cupar (Fife).	Glencorse.	Stirling.

N.E. District, 3 *Armourers.*

Barnard Castle.	Leicester.	Richmond.
Beverley.	Lincoln.	Scarborough.
Derby.	Newark.	Sunderland.
Grantham.	Newcastle-on-Tyne.	York.
Halifax.	Paull-on-Humber.	
Hartlepool.	Pontefract.	

N.W. District, 4 *Armourers.*

Ashton.	Hereford.	Shrewsbury.
Beaumaris.	Lancaster.	Warrington.
Burnley.	Lichfield.	Warwick.
Bury.	Macclesfield.	Worcester.
Carlisle.	Mold.	Wrexham.
Carnarvon.	Preston.	
Chester.	Seaforth.	

Eastern District, 2 *Armourers.*

Bedford.	Harwich.	Northampton.
Bury St. Edmunds.	Hertford.	Norwich.
Ely.	Huntingdon.	Warley.
Great Yarmouth.	Ipswich.	

Western District, 3 *Armourers* (1 *for Royal Artillery*).

Aberystwith.	Devizes.	Pembroke.
Bodmin.	Devonport.	Plymouth.
Brecon.	Exeter.	Swansea.
Bristol.	Falmouth.	Taunton.
Cardiff.	Hubberstone (Fort).	Welshpool.
Carmarthen.	Milford Haven.	
Cirencester.	Monmouth.	

Home District, 2 *Armourers.*

Barnet.	Guildford.	Oxford.
Caterham.	High Wycombe.	Reading.
Dalston.	Hounslow.	Victoria Park Square.
Finsbury.	Kingston.	

Southern District, 2 *Armourers* (1 *for Royal Artillery*).

Chichester.	Fort Victoria, Isle of Wight.	Portsmouth.
Dorchester.		Sandown.
	Gosport.	Winchester.

Guernsey (*for Channel Islands*), 1 *Armourer.*

Alderney.	Guernsey.	Sark.
Jersey.		

Thames District, 1 *Armourer* (*Royal Artillery and for General Service*).

Canterbury.	Maidstone.	Sheerness.
Gravesend.		

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G.O.C. to determine order of visits.

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339. General Officers commanding the Districts in which the armourer serjeants are permanently posted will determine the order in which they will visit the different stations in their circuit, arranging with regard to stations outside their own districts with other General Officers Commanding concerned. The armourer serjeants will forward a report showing the result of their inspections on Army Form C 366, to the chief ordnance officer for the information of the General Officer commanding the District. A copy of this report will be forwarded to the officer commanding the unit concerned.

Services to be applied for.

340. Officers commanding regimental depôts will make application to the chief ordnance officer for the services of the armourer serjeant whenever the condition of the arms, in their charge, renders this necessary.

Components for repair.

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341. The components required by the armourer-serjeant will be supplied to him in advance, by the Army Ordnance Department, in the proportions laid down for the various descriptions of arms in Appendix VIII. Such of them as are subsequently expended will be demanded, by the officer commanding each unit for whose arms they were required, and charged to him by the Army Ordnance Department; any not so expended being returned by the armourer-serjeant, on completion of his tour of duty. Allowance should be made for the components that are supplied to Militia for the use of their non-commissioned officers on the permanent staff.

Additional supply.

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342. If a further quantity of these or other components be required, the armourer serjeant will acquaint the officer commanding the unit, explaining the circumstances which render the additional supply necessary; that officer commanding will then demand such components as are requisite from the Army Ordnance Department.

Cancelled.

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343.

343A. When the barrels of arms are injured beyond local repair, barrels with bodies should be demanded, from the Army Ordnance Department, to replace the injured ones. These should be fitted to the arms by regimental armourer serjeants; the barrels and bodies so replaced being returned into the local ordnance depôt, for transmission to the Royal Small-Arms Factory, Birmingham.

Repairs abroad.

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344. The arms in possession of units or detachments abroad will be examined quarterly by an armourer serjeant. Should the unit or detachment not be provided with an armourer serjeant, and the arms require repair or re-browning, the General Officer Commanding will, on requisition from the commanding officer to the chief ordnance officer, detail a regimental armourer serjeant to perform the work, or will order it to be undertaken by the Army Ordnance Department, as may seem to him advisable. The unit providing the armourer serjeant, or the Army Ordnance Department, as the case may be, will also provide the necessary materials which, in the case of a regimental armourer serjeant, will be obtained from ordnance depôt.

Liability of corps provided with armourer serjeant.

345. On the return of arms into store any repairs found necessary, which ought to have been performed by the armourer serjeant, will be charged against the troops.

Injury to barrels.

346. In cases of injury to barrels, the barrel and body together will be exchanged, but the price of the barrel only will be charged, provided the body is in a serviceable condition.

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Tampering with arms.

347. All tampering with arms is strictly prohibited. Any damages to arms so caused will be charged against the troops.

Repairs through tampering.

348. Annual inspections will be made of the arms, and the cost of any repairs found necessary from any cause other than fair wear will be charged against the troops.

Injured barrels to be specially marked.

349. In cases where it is not possible entirely to remove marks in the barrels, caused by cuts or rust, without unduly enlarging the bore, and thereby injuring the shooting power of the arm, a star (*) is to be placed upon the barrels of rifles and carbines in front of the "Knox form," and upon the barrels of pistols on the left-hand side of the "top strap." This mark is only to be made at the factory, and will serve to denote that a trace of a cut or of rust may be expected, and that therefore no charge for such cut or rust will be made against the soldier at any subsequent inspection.

Assistants in browning.

350. To enable the armourer-serjeant to perform the service of browning the arms, he will be granted from the unit the assistance provided for under the Royal Warrant for Pay, &c.

Browning bayonet sockets.

351. When new rifles have been issued to units, and the bayonets in use with the arms returned have been retained, labour, fuel, and browning material will be allowed for the purpose of browning the bayonet sockets in the following proportions:—

Labour	$\frac{1}{3}$	Of the regular authorised amounts for biennial browning.
Fuel	$\frac{1}{6}$	
Browning material	$\frac{1}{8}$	

No charge for browning.

352. No charge will be made against the troops for browning their arms, when the browning is rendered necessary by fair wear. Under ordinary circumstances browning should last for two years.

2. Accoutrements.

Repairs of leather work of accoutrements.

353. The leather work of accoutrements of unmounted units, as shown in paragraph 354, will be repaired by the shoemaker of the unit, or such other person as may be directed by the commanding officer.

Amount allowed.

354. For this service the undermentioned sums will be allowed annually to each commanding officer, for every 10, or less number, of sets of accoutrements in use :—

	s.	d.
Company of Infantry	1	2
Unit of Royal Engineers (except mounted units) ..	1	0
Company of Garrison, and Local Companies, Royal Artillery, and Bermuda Militia Artillery District Establishment, Royal Artillery .... Dismounted Depôt Company of Army Service Corps .... Company or Detachment of Medical Staff Corps Depôt of Medical Staff Corps .... Company of Army Ordnance Corps	0	10

How drawn by depôts.

355. In the case of regimental depôts, the sum will be paid by the regimental district paymaster from the date upon which the depôt joins the regimental district, from which date captains of companies will cease to draw any allowance for the repair of accoutrements from the regimental paymaster.

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To be claimed annually.

356. The allowance for the repair of accoutrements will be claimed in advance, for the whole financial year, in the month of April, upon Army Form P 1900, and will be charged in the battery or company pay list.

Thread and tools.

357. Waxed thread and tools will be provided out of this allowance, the articles allowed for repair of accoutrements being supplied by the army ordnance department.

Metal work.

358. The repair of the metal work will be part of the ordinary duty of the armourer serjeant, or smith, where one is available.

Injurious materials forbidden.

359. The use of oxalic acid or other injurious materials for cleaning black or buff accoutrements, is strictly forbidden. Such parts of black accoutrements as would show brown when in use may be blackened with ordinary blacking, but no other colouring matter is to be used in such cases.

Cleansing and preservation of brown accoutrements.

359A. When brown leather accoutrements require to be cleansed from dust and dirt, they should be washed with yellow bar soap and water, and dried in the shade. Two bars of soap per company will be found ample.

To preserve and polish brown leather accoutrements, a dubbing composed of :—

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39

10 ozs. of clean mutton tallow,
6 ozs. of pure beeswax,
3 drams of camphor,

melted and mixed over a slow fire, should be used. These ingredients will make one pound of the composition, which should be rubbed on to the grain, or smooth side, of the accoutrements with a piece of coarse cloth, using as much friction as possible to enable the fatty substance to penetrate. A portion of the wax will then remain on the surface, and dry rubbing will always bring on a polish. An application of this composition once a month will, in ordinary circumstances, be found sufficient, and an allowance of 2 ozs. per man per month will be found ample ; but whenever it is necessary to clean the accoutrements with soap and water, an application of the composition should always be made before the leather is quite dry. When accoutrements get stained with mildew or perspiration, or otherwise, a slight application of limejuice will be found to remove the stains.

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10

Supply of materials chargeable to the public.

360. Spare parts and furniture for accoutrements required to replace others expended or worn out, the cost of which is chargeable to the public, will be supplied in the authorised proportions, as specified in the several corps details.

To troops.

361. Materials required to replace others lost or damaged by neglect, will be charged against the troops.

No ripping to pieces until new parts received.

362. When any article, comprising two or more component parts, has become in part unserviceable in time of peace, such new parts as may be required will be obtained from store and attached by the artificers of units, free of charge. Commanding officers will take care that no article of equipment in use is ripped to pieces until the new parts required from store have been received and can be sewn on without delay.

In cases of large requisitions.

363. In cases, however, where the requisitions for accoutrements to replace unserviceable articles are very large, and where commanding officers consider that it would be inexpedient to allow the equipments of their units to be rendered incomplete, even for a

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short time, accoutrements of the kind referred to in paragraph 362 may be demanded in a complete state.

3. Musical Instruments.

Drum heads and bugle strings.

364. Drummers of infantry are chargeable with the cost of new drum heads; and buglers of infantry and trumpeters of cavalry and Royal Horse Artillery with the cost of renewing the strings of their bugles and trumpets, when these strings become unserviceable within the period assigned by regulation for their duration.

Flutes and piccolos.

365. Instructions for the care and preservation of flutes and piccolos are printed in Appendix III.

4. Harness and Saddlery.

Materials for repairs.

366. The authorised proportions of materials, as detailed in the several corps details, Part 2, which are supplied for repair of harness and saddlery, are based upon the average quantities required for the repair of articles which have been some years in use. With new equipments the same amount of materials would not be required; and commanding officers in making requisitions, will demand only what is actually requisite. Needles, for the repair of harness and saddlery, may be drawn annually, at the rate of one sewing needle to five sets of saddlery or single harness, and one harness needle to four sets of saddlery or single harness.

Disposal of cuttings.

367. All cuttings from the undermentioned materials supplied to the mounted services for repairing harness and saddlery, as well as the unserviceable parts and material named, will be returned into store, as convenient opportunity offers :—

Cuttings from { canvas. / cloth. / leather. / numnahs. / serge. / sheepskins.

Flaps, saddle, pairs.

Hair, old { doe. / horse.

Junk, old.

Metal-work { brass bosses { bits. / cruppers and breastplates. / copper rivets, saddles, universal. / iron (from saddles generally).

Seats, saddle.

Preservation.

368. Detailed instructions for the care and preservation of the leather of harness and saddlery are printed in Appendix IX.

369. *Cancelled.*

370. Transferred to 265A.

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SECTION XVIII.—DURATION OF EQUIPMENT.

I.—GENERAL INSTRUCTIONS.

Object of assigning periods of duration.

371. Periods of duration have been assigned to the articles enumerated in the following tables, with the object of informing commanding officers and ordnance officers of the length of time equipment should, with careful treatment, remain serviceable under ordinary circumstances of continuous use. It is the duty therefore of all concerned to see that the equipments have fair treatment, and, should it appear that articles are becoming unserviceable before they have been in use the prescribed periods, to inquire carefully into the cause thereof; since, in the absence of sufficient reason to explain the circumstance, the troops become liable to be charged in accordance with paragraphs 95 and 96 of these Regulations. The periods of duration, moreover, are not intended in any way to govern the times for exchanging the stores, which must continue to be used until actually unserviceable.

Duration on active service and at stations abroad.

372. On active service and at stations abroad the periods of duration are liable to vary according to the nature of the service and the climate, but the prescribed periods will be kept in view, and adhered to as far as practicable.

ARMS.

TABLE 1.	Duration, in years.	Remarks.
Rifles	12	
Bayonets { sword	12	
Bayonets { triangular	12	
Scabbards { leather { bayonet, triangular	6	
Scabbards { leather { sword	8	
Scabbards { leather { sword-bayonet ...	8	
Scabbards { steel, sword, staff-serjts'. ...	12	
Scabbards { ,, cavalry	10	
Bottles, oil, brass	8	
Flags, lance	2	
Lances	12	
Pistols, Webley	12	
Protectors, front sight	8	
Pull-throughs, M.L.M. rifle { weights ...	8	
Pull-throughs, M.L.M. rifle { cord ...	¼	
Reflectors, M.L.M. rifle	8	
Swords { cavalry	12	
Swords { staff-serjeants'	12	
Swords { drummers' and band	12	
Swords { pioneers'	12	
Implements, action	12	
Actions, skeleton, M.L.M.	12	
Tools, removing striker, M.L.M.	12	
Gauges, armourers', action...	20	
Tubes, aiming { Martini-Henry	10	
Tubes, aiming { M.L.M.	5	

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ACCOUTREMENTS.

TABLE 2.	Duration, in years.	Remarks.
Aprons, leg	10	
Bags, ammunition	4	
Belts — pouch — staff serjeants'	7	Household Cavalry.
	12	Cavalry of the line.
other ranks	8	Other corps receiving them.
	7	Household Cavalry.
	12	Cavalry of the line.
waist, buff, cavalry, line — staff serjeants'	9	
waist, buff, cavalry, line — other ranks ...	9	
waist, buff, cavalry, household, all ranks	7	
waist, valise equipment ... ... — staff serjeants'	8	Rifles.
	12	Other corps receiving them.
general service	9	Rifles.
	12	Other corps receiving them.
waist, under Officers', Woolwich ...	7	
Billets for sword carriages	6	
sabretache carriages ...	6	Hussars.
Bottles, water	...	No definite period can be fixed.
Braces, valise equipment	9	Rifles.
	12	Other corps.
Carriages — waist belt	6	Four years only for Lancers.
water bottle, Italian — buff	8	
black	6	
,, ,, iron, — buff	5	
enamelled — black	4	
sabretache	6	Hussars.
Cases, brown, pistol	9	
Chapes	12	
Frogs	8	Rifles.
	12	Other corps.
,, buff, hand-axe...	12	
Handcuffs, common ... ... pairs	12	
Knots, sword, leather	4	Rifles.
	6	Other corps.
	8	Chief warders.
Lanyards, pistol	3	
Pouches — ammunition	7	Household Cavalry.
	9	Cavalry of the line.
	9	Rifles.
	6	Horse and Field Artillery.
	10	Other corps.
warders'	9	
writing materials	7	
Sabretaches	7	Hussars.
Slings, carbine or rifle	8	
Straps — greatcoat	9	
mess-tin		
Valises	6	
Whistles with thongs	12	

HARNESS, SADDLERY, AND STABLE NECESSARIES.

TABLE 3.	Duration, in years.	Remarks.
HARNESS AND SADDLERY.		
Bags — corn*	8	
nose*	3	
Bands, back	7	
Bearers, trace	7	

* Nose and corn bags are expected to last the periods prescribed for them respectively when the troops are in permanent stables only. On other occasions the time these articles will last will depend on the nature of the service and the station.

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Harness, Saddlery, and Stable Necessaries—*continued.*

TABLE 3—*continued.*	Duration, in years.	Remarks.
Bits bridoon	12	
Bits portmouth	12	
Blankets, saddle	4	
Breastpieces	7	
Breastplates	5	
Breechings	7	
Bridles, snaffle	3	
Brushes harness, hard	1	
Brushes horse	1	
Buckets carbine	5	
Buckets lance	5	
Cases, horseshoe	7	
Collars head — warrant officers, non-commissioned officers and men	4	
Collars head — officers	7	
Collars neck	7	
Combs, curry	1	
Cruppers	7	
Girths leather	7	
Girths web	3	
Hames	16	
Heads, bridle	5	
Irons, stirrup	16	
Leathers, stirrup	5	
Leggings, drivers'	7	
Numnahs	3	
Pannels, saddle drivers and luggage	7	
Pannels, saddle officers and universal	8	
Pickers, hoof	3	
Pieces, buckling	7	
Reins bearing, leading, and bridoon	5	
Reins portmouth bit, and side	7	
Reins driving	6	
Sacks, corn*	5	
Saddles	12	
Skins lamb, officers	7	
Skins sheep — warrant officers, non-commissioned officers and men	6	
Skins sheep — drivers	7	
Sponges, general service	1	
Straps all kinds (*except kicking*)	5	
Straps kicking	10	
Surcingles	7	
Traces harness, lead and wheel, and saddlery	7	
Traces harness, short	10	
Tugs, back-band, and breast harness	7	
Wallets	7	
Whips drivers	3	
Whips driving	3	
Whips hand	1	
Whips longeing	2	
Scissors, trimming 1 pair for each riding horse	5	
Scissors, trimming 1 pair for each pair of draught horses	3	

* Corn sacks are expected to last the periods prescribed for them when the troops are in permanent stables only. On other occasions the time these articles will last will depend on the nature of the service and the station.

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Part-worn Harness and Saddlery.

The period of duration for articles of harness and saddlery issued part-worn is to be taken under ordinary circumstances as half that fixed for new.

MUSICAL INSTRUMENTS.

TABLE 4.	Duration, in years.	Remarks.
Bugles, without strings	4	Mounted corps.
	6	Other corps.
Cases, leather, flute, B	6	
Cases, leather, flute, F	6	
Cases, leather, piccolo	6	
Cases, drum, ticken	10	
Drums, side, brass, large	10	
Drums, side, brass, cords	5	
Drums, sticks	1/2 pairs	
Drums, silent	10	
Tuning-forks	6	
Flutes, B	6	
Flutes, F	6	
Pitchpipe	6	
Piccolos, E, flat	6	
Piccolos, F	6	
Strings, bugle, or trumpet	4	
Trumpets	4	Mounted corps.
	6	Other corps.

APPOINTMENTS, PIONEERS.

TABLE 5.	Duration, in years. For Infantry	Duration, in years. For Cavalry.	Remarks.
Axes, felling, curved helve	12	...	
Axes, hand	12	12	
Axes, pick, 2 3/4 lbs. heads, 29-in. helve	12	...	
Axes, pick, 6 1/2 lbs. heads, 34 1/4-in. helve	...	12	
Bars, pinching, 2 ft. 10 ins.	12	...	
Caps, hand-axe, brown	12	...	
Cases, black, billhook	9	...	
Cases, pinching bar	9	...	
Cases, hand-axe and 20-in. saw	9	...	
Cases, tools, shoeing, No. 1	9	...	
Cases, tools, shoeing, No. 2	9	...	
Cases, tools, small	9	...	
Cases, pioneer equipment, cavalry	...	9	
Frogs, leather, hand-axe	12	...	8 years in case of rifle battalions.
Hooks, bill	12	...	
Nippers, end-cutting, cavalry, pioneer	...	8	
Pouches, gunspike, brown	9	...	
Pliers	...	8	
Pouches, matchbox	...	9	
Rules, 18 ins.	...	12	
Saws, hand, 20-in.	12	...	
Saws, hand, 18-in.	...	12	

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Appointments, Pioneers—*continued.*

TABLE 5—*continued.*	Duration, in years. For Infantry	Duration, in years. For Cavalry.	Remarks.
Shovels, light, cast-steel	12	...	
Sets, saw, hand	...	12	
Spikes, gun, common	12	12	
Spades, new pattern	...	12	
Straps, connecting, valise equipment, old pattern, mess-tin	9	...	
Spanners, MacMahon, 9-in.	...	12	
Tools, shoeing — buffer, farriers'	12	...	
Tools, shoeing — hammer, wheelers', shoeing ...	12	...	
Tools, shoeing — knife, drawing	12	...	
Tools, shoeing — pincers, farriers'	12	...	
Tools, shoeing — rasps, farriers', 14-in.	12	...	
Tools, small — augers — screw, 1-in.	12	...	
Tools, small — augers — bull-nosed, 2-in.	...	12	
Tools, small — chisels — hand, cold, ¾ in. by 8 ins.	12	...	
Tools, small — chisels — socket, 1½-in.	12	...	
Tools, small — files, saw, hand — 5½-in.	12	...	
Tools, small — files, saw, hand — 3-square, 6-in. ...	...	12	
Tools, small — hammers, claw	12	...	

MISCELLANEOUS ARTICLES.

TABLE 6.	Duration, in years.	Remarks.
Box, school materials...	12	
54 **Case,** wood, armourers'	12	
Gen. No. 6818 **Flags,** signal, army — large...	2	
Flags, signal, army — small	1½	
Flags, signal, army, poles — large ...	4	
Flags, signal, army, poles — small ...	3	
Stamps — brass or gun metal, on wood, ¼ in. ... — figures, 0 to 8, sets	12	
Stamps — brass or gun metal, on wood, ¼ in. ... — letters, single	12	
Stamps — copper, inlaid, ½ in. ... ... — figures, 0 to 8, sets	12	
Stamps — copper, inlaid, ½ in. ... ... — letters, single	12	
Stamps — steel, for wood, ¼ in. ... ... — figures, 0 to 8, sets	12	
54 **Stamps** — steel, for wood, ¼ in. ... ... — letters, single	12	
Gen. No. 6731 **Stamps** — steel, ½ in.	12	
Stamps — wood, 2 ins.	12	

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SECTION XIX.—DUTIES OF ARMOURER SERJEANTS.

373. Armourer serjeants will perform the following duties:— Duties.

(*a.*) Execute all repairs required to the arms (including lances, pistols, swords, and scabbards) in possession of, or that may be supplied to, their respective units; and perform any other work within their capabilities, required to the equipment of their units, such as repairs to helmets and chains, busby chains, lancer cap chains, and the brasswork on the lancer cap.

(*b.*) Thoroughly strip all rifles, carbines and pistols, and examine and clean them periodically. With the prescribed assistance, brown the barrels of such arms, including machine guns, as may require it immediately after the quarterly examination by the regimental armourer-serjeant. No one arm, however, will be browned oftener at the public expense than once in two years. Examine and clean periodically all arms, and also all machine guns, in accordance with the Instructions for care and preservation of machine guns. A.O. 102, 1896. 77 6 3090

(*c.*) Mark all arms in possession or that may be supplied, also the drums, bugles, flutes, piccolos, or trumpets. Perform all repairs to the iron and metal-work of accoutrements, saddlery, and appointments, including the roughing of stirrup irons which is to be done every third year, or oftener if necessary. Keep in repair the tools in the armourer's boxes.

(*d.*) Within working hours, the services of armourer serjeants will, when the duties of their own units admit, be generally available for the performance of any of the above duties for other units or departments, without extra remuneration; but the employment of an armourer-serjeant with another corps is limited to the case of units without artificers,—or to cases in which artificers are attached, but additional assistance is required under exceptional circumstances.

(*e.*) Execute repairs necessitated by carelessness or wilful damage, without addition to pay.

(*f.*) Fit the plates supplied with cork helmets.

374. The localised armourer serjeants, referred to in paragraph 337, will examine, repair, and rebrown, as necessary, the arms of all depôts, units unprovided with armourer serjeants, and militia battalions, in the districts allotted to them. Localised armourer serjeants. 54 Gen. No. 6583

375. Armourer serjeants will, in addition to the duties laid down in paragraphs 373 and 374, execute any trifling repairs, and also such other work within their capabilities as, under special authority, they may be called upon to perform. Additional work.

376. Armourer serjeants are not allowed to make any charge against a soldier for work performed on the arms. Soldiers not to be charged.

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APPENDIX I.

(*Referred to in paragraphs* 11, 55, *and* 85.)

INSTRUCTIONS FOR KEEPING EQUIPMENT LEDGERS.

Ledgers. When balanced and furnished.

1. The ledgers will contain a faithful record of all permanent equipment received or issued. They will be balanced up to 31st March in each year, and will be forwarded, with the vouchers in support, from home stations direct, and from stations abroad through the chief ordnance officer, before the 1st May, to the War Office. The vouchers should not be folded up, but should be laid flat in the equipment ledger.

When they need not be furnished.

2. When a change of commanding officers takes place between the 31st December and the 1st April, the officer assuming the command will not be required to render an equipment ledger until the 31st March of the following year, unless another change of commanding officers shall take place in the meantime.

Copies to be kept.

3. Copies will be kept of all equipment ledgers sent to the War Office. Should any queries arise on the examination of the ledgers, copies of such queries and of the replies will be retained by the accountant, who will correct his copy of the ledger accordingly.

Special cases.

4. On a unit being disbanded, or embarking for India, the equipment ledger will be balanced and forwarded to the War Office.

Transfer of equipment.

5. When equipment is transferred from one commanding officer, or other accountant, to another, stock will be taken as laid down in paragraph 11, Part 1, and the Board therein mentioned will furnish the following certificate :

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We certify, in accordance with paragraph 11, Part 1, of the Equipment Regulations, that on the transfer of the equipment of the * on the† . the whole has been inspected by us, and has been found to be properly appropriated, in good condition, and to agree in the quantities and numbers of the several articles actually in possession, with those shown in the equipment ledger.

* Here insert the corps.
† Here insert the date.

President, _____

Members { _____ _____

_____ *Officer giving over charge.*

_____ *Officer taking over charge.*

6. Any surplus stores will at once be brought on charge in the ledger by certificate receipt voucher, and all stores which may be found to be deficient will be struck off charge by a priced voucher (Army Form P 1925), and columns B and C on this voucher will invariably be filled up. These vouchers will be signed by the officers who sign the certificate. Stores found surplus or deficient.

7. A balance will then be struck, as directed in paragraph 22 of this Appendix, which will show the total of each article of equipment for which the officer who takes over command is responsible. This balance will agree with the numbers given by the certificate referred to in paragraph 5 of this Appendix. A balance to be struck.

8. The officer giving over command will then close his ledger to date of giving over charge, and submit it as a final account for examination, and he will be held responsible for all discrepancies which may be found to exist therein; he will also give facilities to the officer assuming command to start a new ledger, the first line, or "state," of which should agree in every particular with the balance, or "remain at date," shown in the old ledger. Ledger to be closed and submitted.

9. In forwarding the ledger to the date of transfer of charge, or date of final balance, it should be accompanied by a covering letter, and any explanations which the officer giving over command may have to make, as regards the stores found surplus or deficient, should be transmitted. Covering letter with explanations.

10. Officers commanding detachments referred to in paragraph 93, Part 1, will become accountants for their equipments, and will render equipment ledgers in accordance with these regulations, so long as they remain independently detached. When a detachment of infantry is attached to a battalion, the equipment will be transferred, by voucher, to the officer commanding the battalion, but will be accounted for by him, in a separate ledger, Army Book 239, and in the case of a provisional battalion composed of several detachments, the commanding officer will render a separate ledger for each such detachment. Equipment of detachments.

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Vouchers for detachment equipments.

11. Officers commanding units furnishing the detachments will transfer the equipments to the new accountants by regular vouchers, and on receiving their receipts, will strike the articles off charge in their own corps ledgers.

Closing detachment ledgers.

12. When a detachment returns to its own unit, or is absorbed in a territorial depôt or other corps, the equipment will similarly be transferred to the depôt or corps ledger; and the detachment ledger will be closed, and rendered, complete with its vouchers, to the War Office as a final ledger.

Articles supplied in sets not to be accounted for in detail.

13. Articles supplied in sets for which a single heading is provided in the printed equipment ledgers, will be so accounted for. For instance, chests with tools will be shown as "chests, tool, filled," &c., and the armourer's box, with the materials and tools carried therein, as "box, armourer's," &c. A certificate will be given at the end of the ledger by the commanding officer that the sets, tool chests, and box are complete, and contain the articles that should be comprised in them, as detailed in the regulations. When articles charged in detail are taken on in the equipment ledger as sets, reference will be given to the paragraph or table of the regulations which gives the detail. The articles drawn from the army ordnance department to replace losses, &c., in these sets will be taken on charge in the ledger, and the corresponding articles paid for or returned to store will be written off under the same heading, so that the two transactions balance one another.

One column for each article.

14. As ledgers are only provided with one column for each article, and all stores are presumed to be serviceable, separate entries should not be made of unserviceable or repairable articles, which will be dealt with in the usual way under proper authority.

Transaction to be promptly recorded.

15. All transactions of receipt and issue that should be recorded in the ledgers will be posted as soon as possible after they occur, and will be supported by voucher.

Designations and posting of vouchers.

16. Vouchers for stores issued are called issue vouchers, and are posted on the right hand or credit side. Vouchers for stores received are called receipt vouchers, and are entered on the left hand or debit side of the ledger.

Receipt and issue vouchers.

17. When stores are issued to another accountant there will be prepared two vouchers, namely, a receipt voucher and an issue voucher. *See* also paragraph 5 (*d*), page v, of the Priced Vocabulary of Stores, 1893.

The same Form for both.

18. The same Army Form will serve both for receipt and issue vouchers, the words "issue," and "received into," being struck out when the form is used as a receipt voucher, and the words "receipt," and "delivered out of," being struck out when the form is used as a voucher in support of an issue.

Vouchers to show total quantity only.

19. Both receipt and issue vouchers will be filled in by the insertion of the total numbers only in the column of the voucher headed "total number or quantity," the columns S. R. U. and D. being left for use of the army ordnance department.

Ledger folio to be noted on vouchers.

20. The ledger folios at which entries are made should invariably be noted on the vouchers supporting the account in the column headed "ledger folio."

Receipt and issue

21. Receipt vouchers and issue vouchers will be kept distinct from each other, arranged consecutively according to date, and

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numbered in red ink on the face of the voucher in two distinct series from 1 upwards for the whole period of the account. The total number of each series will be stated on the inside cover of the ledger, or on the covering letter transmitting the account. Vouchers to be kept separate.

22. The ledger is balanced by adding up the receipts on the left hand side, and the issues on the right hand side of the ledger, by bringing the total issues over to the left hand side and writing them immediately under the total receipts, the quantities left become the ledger balance or "remain." The remain, when carried forward as the commencing line of the next account, is called the "state." How the ledger is balanced. Remain. State.

23. In forwarding the equipment account, officers commanding will certify that it has been carefully checked by an officer appointed by him for that purpose, who will sign it in evidence of such examination. Certificate on forwarding account.

APPENDIX II.

(*Referred to in paragraph* 83.)

SURVEYS ON THE EQUIPMENT OF TROOPS PROCEEDING TO OR RETURNING FROM INDIA.

SURVEYS AT HOME.

1. If the survey is at home, the officer appointed by the Secretary of State will ascertain, from the general officer commanding in whose district the unit is stationed, the day on which it will be convenient that the survey should be made; and will on such day being named, arrange, with the officer appointed on behalf of the Government of India, to commence the duty. Arrangements to be made with General Officers Commanding. 38407 Equipt.

2. The officer so appointed on the part of the War Office will hold the survey in conjunction with the officer named by the India Office. 1768 Representative officers.

3. The object of the survey being to obtain a true account of all articles of Government property in possession of the unit, with a view to a correct valuation between the Imperial and Indian revenues, it is necessarily minute and somewhat tedious, and much, therefore, depends upon the co-operation of all concerned, in order to bring the survey to a speedy and satisfactory conclusion. Object of survey.

4. To facilitate the survey, the officer commanding the corps of which the equipment is to be inspected, will cause lists of all the articles in possession to be prepared in duplicate, together with returns showing the dates of issue of each article, in readiness to be handed over, with the inspection forms for each squadron, battery, or company, to the officers holding the survey. These lists will be made out on Army Forms, which, with the Inspection Forms, should be obtained from the Valuation Committee, India Office London. Officers commanding to have lists prepared. 54 Artillery 4354

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Ledger to be temporarily balanced.

5. The regimental equipment ledger will be temporarily balanced to the date of the survey, and will be handed to the surveying officers, in order that they may see that all the equipment chargeable to the unit is included in the survey report. Any transactions subsequent to the survey will be duly entered in the ledger, and a final balance struck to date of embarkation.

Forms to be handed to surveying officers.

6. Previously to the commencement of the survey, the commanding officer will hand over the prepared forms referred to in paragraph 4 of this Appendix to the surveying officers, who will enter the detailed results of their inspection thereon.

Inspection to be by squadrons, batteries, or companies.

7. The inspection will be taken by squadron, batteries, or companies, each man bringing up his complete set of accoutrements in order of the rolls, every article being separated. Cloaks, capes, great coats, and haversacks will be inspected at the same time.

Cloaks and great coats.

Arms and accoutrements of staff and band.

8. The arms, accoutrements, and appointments, of infantry staff serjeants, drummers, band, and pioneers, will be inspected separately; different rolls being provided for the detail of their appointments.

Quartermasters' stores.

9. After this the quartermaster's and the industrial school stores, armourer's box, and artificers and regimental tradesmen's tools, materials for repair, and any other miscellaneous articles of Government property will be inspected, their condition and date of issue being carefully noted on rolls previously prepared for the purpose.

Every article to be produced.

10. It is absolutely necessary that every article be produced for inspection, as any deficiencies afterwards discovered, on the examination of the accounts, will be chargeable to the unit, and will be paid for prior to embarkation.

Report to be forwarded to the War Office.

11. On the termination of the survey, while the surveying officers are upon the spot, they will draw up a joint report of the result of the survey, and will forward the same, accompanied by the detailed forms alluded to in paragraphs 4 and 6 of this Appendix, through the general officer commanding, to the War Office.

Date of survey.

12. In the case of units proceeding from home the survey will be held about one month prior to the date on which the unit is under orders to embark.

Ledger to be balanced, &c.

13. Commanding officers will take care that their equipment ledgers are duly balanced up to date of embarkation, and are forwarded as laid down in paragraph 4, Appendix I.

Unsuitable articles to be exchanged.

14. Any arms and accoutrements which, owing to their condition at the time, the officers holding the survey and the commanding officer may consider necessary to be replaced, will be exchanged by the chief ordnance officer on requisition from the commanding officer, countersigned by the surveying officers. *See* Queen's Regulations. Commanding officers will be held responsible for the return to store of such unserviceable articles prior to the embarkation of the unit.

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Report of articles sent with drafts to be made.

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Artillery
4354

15. When articles of equipment are taken to India by drafts, the officer commanding the unit to which the men belong will send to the War Office a return showing the number of articles so taken, giving the dates of issue, and condition (*see* paragraph 14 of this Appendix), and will name the vessel in which the men have embarked, and the date of embarkation.

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Water-bottles.

15A. Water-bottles of home service pattern will be issued to troops proceeding to and from India irrespectively of destination. On arrival in India these bottles will be handed over to the India Ordnance Department, and a receipt obtained for them. On embarking from India a similar receipt will be given to the ordnance officer by the officer commanding the unit receiving the bottles. All mention of these bottles will be omitted from the valuation returns.

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Troops returning from India.

16. The survey upon the arms, accoutrements, appointments, and clothing in possession of a unit on its return from India, will be held as early as possible after its arrival at its final destination in the United Kingdom, and will be conducted in the same manner as in the case of regiments proceeding to India from this country. When the survey has been taken, requisitions for any articles required in place of those which may have become obsolete or unserviceable will be at once put forward, in order that no time may be lost in completing the clothing and equipment of the unit. Should the survey have to be delayed unduly from any cause, an immediate report of the circumstances will be made to the War Office by the general officer commanding. The stores brought from India will be retained by the unit or draft, or at depôts, until authority for their disposal has been received from the Valuation Committee appointed by the War and India Offices.

Survey to be held within one week after arrival at destination.

Arms, &c., to be retained till receipt of order for disposal.

17. When the necessary survey is held on the equipment of a unit returned from India, the surveying officers will furnish the commanding officer with a detail of the equipment taken over from the Indian Government, and this equipment will become the first charge in the Imperial equipment ledger. This detail will be put up with the ledger as a voucher for the entries made therein. They will also furnish the commanding officer with a list of the unserviceable articles to be returned to the India Store Department, but no record of the transaction will appear in the Imperial equipment ledger. All packages, the property of the Imperial Government, used for despatching the unserviceable stores will be taken on charge in the equipment ledger on receipt from the Army Ordnance Department, and struck off charge when sent to the India Store Department.

Units returning from India.

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18. The commanding officer will produce to the officer representing India, the Indian equipment ledger and accounts of clothing and necessaries, showing the final balances closed to the date of embarkation, together with copies of the Indian returns showing the condition and dates of issue of all equipment on leaving India.

Indian ledger and clothing accounts to be produced.

19. No articles will be sent to the India Store Depôt, Lambeth, without a receipt and issue voucher, on the printed forms which are furnished by the Valuation Committee when the equipment is inspected; and these documents will be forwarded to the Superintendent of General Supplies, India Store Depôt, Belvedere Road, Lambeth, so as to anticipate the arrival of the articles to which they refer.

Vouchers to be sent with articles to India Store Depôt.

20. The name of the unit, or draft, from which the articles are sent will be marked on the outside of the cases or packages.

Name on packages.

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Articles in possession of men joining direct.

21. Officers commanding depôts, or other units, will forward to the War Office, returns of all arms and equipment, &c., in possession of soldiers coming home from India and joining their depôts or other units direct, specifying the condition as well as dates of issue of the same. These returns will be forwarded as soon as possible after the men join, and will not include articles in possession of men who are discharged immediately they arrive.

Clothing and necessaries.

22. For instructions as to the survey of clothing and necessaries, *see* the "Clothing Regulations."

SURVEYS ABROAD.

Troops proceeding to India from abroad.

23. The conditions laid down in the previous paragraphs will apply equally to the surveys to be held on equipment of troops proceeding to India from stations abroad, it being left for the consideration of the Indian Government to send out an officer to act on their behalf.

Constitution of Board of Survey.

24. If the inspecting officers of the Valuation Committee are unable to attend, a special Board of Survey is to be convened for the inspection, which Board is, as far as practicable, to be constituted as follows :—

A field officer of the unit, President.
A captain of the unit } Members.
An army ordnance officer }

The quartermaster of the battalion or regiment will be in attendance for the purpose of affording any information the Board may require.

Arrangement with G.O.C.

25. The chief ordnance officer will arrange, as laid down in paragraph 1 of this Appendix, for the survey, and also for the convening of the Board.

Necessary forms to be supplied.

26. The necessary forms for carrying out the survey will be supplied as laid down in paragraph 4 of this Appendix, and the inspection of the equipment is to be made in accordance with the mode of procedure laid down for units proceeding from the United Kingdom, and, when completed, the returns will be signed by the president and members of the board.

Returns signed by officer commanding.

27. The quartermaster will furnish the following returns, signed by himself, and countersigned by the commanding officer :—

List of Materials for repairing { Accoutrements. / Arms.
„ Armourers' tools.
„ Tools for trades (*if any are taken out*).
„ Industrial school materials to be taken out.
„ Dates of receipt of equipment.

Returns to be forwarded.

28. When all the returns and forms of inspection have been duly completed and signed, they will be forwarded, with the Board's report of result of inspection or survey, to the general officer commanding for transmission to the War Office.

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APPENDIX III.

(*Referred to in paragraph* 365.)

INSTRUCTIONS FOR THE CARE AND PRESERVATION OF FLUTES AND PICCOLOS.

Joints and bore to be wiped with oiled rag.

1. The player, in whose care the instrument is placed, must carefully wipe the joints and bore with an oiled rag or brush once or twice a week. The oil must not be put on too thick, a slight gloss in the bore is all that is required.

Moisture to be removed.

2. After use the instrument must have the moisture carefully wiped away from the joints and bore, and when perfectly dry inside, have an oiled rag or brush passed through the bore.

Precautions against splitting.

3. The instrument must not be placed in the sun, nor laid on cold stone, or iron, while warm or wet inside. These precautions are necessary to protect the wood from splitting.

Cleaning rag not to be forced through bore.

4. Care must be taken not to force the cleaning rag through the bore, as splitting is liable to be caused thereby.

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APPENDIX IV.

(*Referred to in paragraph* 241.)

TOOLS AND MATERIALS FOR REGIMENTAL AND CIRCUIT ARMOURERS.

1. The tools and materials will be supplied free in the first instance, but are thereafter to be kept up and renewed as they become worn out, at the expense of the armourer.

2. The screw plates and taps when renewable must be obtained exclusively from the Army Ordnance Department.

3. When a regimental armourer is detailed to perform work for which tools are required which are not included in his set, the additional tools can be obtained on loan from the Army Ordnance Department.

Articles.	For Armourers of Units armed with					For Circuit Armourers.	Remarks.
	Carbines		Rifles				
				M.L.M.			
	M.L.M. and M.L.E. Cavalry.	M.M. and M.E. Artillery.	M.E. Mark I.	Mark I.*	Mark II, II*, and M.L.E. Mark I.		
Boxes, tool, empty, regimental armourers	1	1	1	1	1	1	
Chests, tool, empty, district armourers	....	....	....	....	....	1	
Awls { blades, armourers	2	2	2	2	2	2	
Awls { handles, brad, small	2	2	2	2	2	2	
Bits, soldering, 1½-lbs.	1	1	1	1	1	1	
Blocks, depressing lever, M.M.	....	1	1	....	....	1	
Braces, armourers	1	1	1	1	1	1	
countersink, rose	1	1	1	1	1	1	
rimer { half-round	1	1	1	1	1	1	
rimer { 4-square	1	1	1	1	1	1	
rimer { 5 „	1	1	1	1	1	1	

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Braces, armourers, bits	screw-driver	butt plate screw	1	1	1	1	1	1	
		stick, cleaning chamber, ·303-in. arms, also for cutter, countersink cartridge head M.M. and M.E.	1	1	1	1	1	1	
		stock bolt, M.L.M. rifle	1	1	1	1	1	1	
		stop nut	....	1	1	....	....	1	
		spoon (with washer)	1	1	1	1	1	1	
Brushes, wire, M.L.M. rifle			*	*	*	*	*	*	*1 per annum for every 100 stands of arms.
Cans, oil, lubricating, armourers			1	1	1	1	1	1	
Chisels	firmer	¾ in.	1	1	1	1	1	1	
		½ ,, ...	1	1	1	1	1	1	
		¼ ,, ...	1	1	1	1	1	1	
	hand, cold	½ ,, × 7 in.	1	1	1	1	1	1	
		⅜ ,, × 7 ,, ...	1	1	1	1	1	1	
Clams, armourers, vice.... .... pairs			1	1	1	1	1	1	
Corks, clam (single)			4	4	4	4	4	4	
Cutters, countersink cartridge head, M.M. and M.E.			....	1	1	....	....	1	
Drifts	fore-end	M.M.	....	1†	....	....	....	....	†For A.C.M.M., Mark II.
		M.L.M. rifle Mark I.* ...	....	....	....	....	1	....	1
		M.L.M. rifle Mark II.	1	....	....	....	1	1	
	magazine, catch pin, M.L.M. rifle		1	....	....	1	1	1	
	sight, axis pin, M.L.M. rifle		1	....	....	1	1	1	
	wire	large	....	1	1	....	....	1	
		small	1	1	1	1	1	1	
Drivers, screw, armourers		large	1	1	1	1	1	1	
		medium	1	1	1	1	1	1	
		small	1	1	1	1	1	1	
		extractor, axis, M.L.M. rifle	1	....	..	1	1	1	
		fork, dial, sight, M.L.M. rifle	....	....	...	1	1	1	
Files, bastard		flat .... 6 inch	2	2	2	2	2	2	
		half-round 10 ,, ...	2	2	2	2	2	2	
		half-round 8 ,, ...	1	1	1	1	1	1	
		half-round 6 ,, ...	2	2	2	2	2	2	
		half-round 4 ,, ...	2	2	2	2	2	2	

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Tools and Materials for Regimental and Circuit Armourers—*continued.*

Articles.	For Armourers of Units armed with Carbines: M.L.M. and M.L.E. Cavalry.	For Armourers of Units armed with Carbines: M.M. and M.E. Artillery.	For Armourers of Units armed with Rifles: M.E. Mark I.	For Armourers of Units armed with Rifles: M.L.M. Mark I*.	For Armourers of Units armed with Rifles: M.L.M. Mark II, II*, and M.L.E. Mark I.	For Circuit Armourers.	Remarks.
Files, bastard, pillar, 6-inch	1	1	1	1	1	1	
Files, bastard, round, 8 ,,	1	1	1	1	1	1	
Files, bastard, round, 4 ,,	2	2	2	2	2	2	
Files, bastard, round, 3 ,,	2	2	2	2	2	2	
Files, bastard, safe-edge, 10 ,,	2	2	2	2	2	2	
Files, bastard, safe-edge, 8 ,,	2	2	2	2	2	2	
Files, bastard, three-square, 6 ,,	2	2	2	2	2	2	
Files, dead smooth, three-square, 6 ,,	1	1	1	1	1	1	
Files, smooth, flat, 6 ,,	1	1	1	1	1	1	
Files, smooth, half-round, 8 ,,	1	1	1	1	1	1	
Files, smooth, half-round, 6 ,,	2	2	2	2	2	2	
Files, smooth, half-round, 4 ,,	1	1	1	1	1	1	
Files, smooth, pillar, 6 ,,	2	2	2	2	2	2	
Files, smooth, pillar, 3 ,,	1	1	1	1	1	1	
Files, smooth, safe-edge, 8 ,,	2	2	2	2	2	2	
Files, smooth, safe-edge, 6 ,,	1	1	1	1	1	1	
Files, smooth, three-square, 5 ,,	1	1	1	1	1	1	
Files, smooth, three-square, 4 ,,	2	2	2	2	2	2	
Floats, fore-end, M.L.M. rifle, No. 1 (large)	1	....	....	1	1	1	
Floats, fore-end, M.L.M. rifle, No. 2 (medium)	1	....	....	1	1	1	
Floats, fore-end, M.L.M. rifle, No. 3 (small)	1	....	....	1	1	1	

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Gauges, armourers	cartridge head, M.M. and M.E.	....	....	1	1	....	....	1	
	distance of bolt from end of chamber, M.L.M. rifle	·064 in.	1	1	1	1	1	1	This also serves as a gauge cartridge dummy M.M. for testing loading and firing positions of M.M. and M.E. arms.
		·072 „	1	....	....	1	1	1	
	striker, point, M.L.M. rifle, Patt. B	....	1	1	1	1	1	1	
Gimlets, common	....	....	3	3	3	3	3	3	
Gouges, firmer	¾-inch	....	1	1	1	1	1	1	
	½ „	...	1	1	1	1	1	1	
	¼ „	....	1	1	1	1	1	1	
Hammers, riveting	24-oz.	....	1	1	1	1	1	1	
	4 „	....	1	1	1	1	1	1	
Handles, file	large	....	6	6	6	6	6	6	
	small	....	6	6	6	6	6	6	
Horses, armourers (with screw)	.. ....	....	....	....	....	....	....	2	
Implements, action, pattern C	....	....	1	....	....	1	1	1	
Mandrils	scabbard, sword bayonet, pattern 1888	blocking, leather	....	....	1	....	1	1	
		locket	....	....	1	....	1	1	
		tip (or chape)	....	1	....	1	1	1	
	sight protector, pattern B	....	....	....	1	1	1	1	
Pincers, armourers	....	pairs	1	1	1	1	1	1	
Planes, smoothing, armourers	....		1	1	1	1	1	1	
Plates, screw	6 taps, 3-hole	sets	....	1	1	....	....	1	
	20 „ 20 „	„	1	....	....	1	1	1	
Pliers, flat nose	....	pairs	1	1	1	1	1	1	
Plugs, clearing	plain, ·303 arms	....	1	1	1	1	1	1	Tapped at end to screw on rod.
	split, M.L.M. rifle	....	1	1	1	1	1	1	
Pots, glue, ½-pint	....	....	1	1	1	1	1	1	
Pressers, extractor, spring, M.L.M. rifle	....		1	....	....	1	1	1	
Punches, depressing lever, M.M.	....		....	1	1	....	....	1	
Rasps, fine, half-round, 9-in.	....		1	1	1	1	1	2	
Rods, armourers, cleaning, M.L.M. rifle	....		1	1	1	1	1	1	Tapped at end to take wire brush.
Saws	hand, 24-inch		1	1	1	1	1	1	
	slitting, 7⅛-inch		1	1	1	1	1	1	
Scribers, for sight line tool	....		....	....	....	....	....	....	This should be made by armourer.
Stakes, armourers	horns of lever, M.M.		....	1	1	....	....	1	
	lever for tumbler, M.M.		....	1	1	....	....	1	

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Tools and Materials for Regimental and Circuit Armourers—*continued.*

Articles.	For Armourers of Units armed with Carbines: M.L.M. and M.L.E. Cavalry.	For Armourers of Units armed with Carbines: M.M. and M.E. Artillery.	For Armourers of Units armed with Rifles: M.E. Mark I.	For Armourers of Units armed with Rifles: M.L.M. Mark I.*	For Armourers of Units armed with Rifles: M.L.M. Mark II, II*, and M.L.E. Mark I.	For Circuit Armourers.	Remarks.
Stamps, steel — for metal — $\frac{1}{8}$-inch, letters, 1 letter	*	*	*	*	*	1 set	*As required for regimental initials of abbreviated corps marks.
Stamps, steel — for metal — $\frac{5}{64}$-inch, figures, 0 to 8, sets	1	1	1	1	1	1	
Stamps, steel — for metal — $\frac{5}{64}$-inch, letters, 1 letter....	1 set	*†	*†	1 set	1 set	1 set	
Stamps, steel — dash lines, $\frac{1}{2}$-inch, for metal....	1	1	1	1	1	1	
Sticks — buff	3	3	3	3	3	3	†As required for regimental terminals of abbreviated corps marks.
Sticks — cleaning chamber, ·303 arms	1	1	1	1	1	1	
Sticks — „ „ ·303 arms, gauze wire pieces	1	1	1	1	1	1	
Stones, oil — armourers	1	1	1	1	1	1	
Stones, oil — slips, Arkansas — large	1	....	....	1	1	1	
Stones, oil — slips, Arkansas — small	....	1	1	....	....	1	
Testers, trigger pull, M.L.M. rifle	1	1	1	1	1	1	
Tools — bow drilling — bows, armourers	1	1	1	1	1	1	
Tools — bow drilling — boxes	2	2	2	2	2	2	
Tools — bow drilling — breast-plates, armourers	1	1	1	1	1	1	
Tools — bow drilling — drills .... sets	1	1	1	1	1	1	5 to a set.
Tools — bow drilling — stocks	1	1	1	1	1	1	
Tools — bow drilling — strings, armourers, knots	2	2	2	2	2	2	
Tools — clearing, ·303 inch arms — bits — corkscrew ...	1	1	1	1	1	1	
Tools — clearing, ·303 inch arms — bits — spoon	1	1	1	1	1	1	
Tools — clearing, ·303 inch arms — rod....	1	1	1	1	1	1	Screwed at end to take clearing bits and plugs.
Tools — removing — handguards, M.L.M. rifle	....	....	....	1	1	1	
Tools — removing — striker, M.L.M. rifle	1	....	....	1	1	1	
Tools — removing — wad, stock bolt, M.L.M. rifle	1	....	....	1	1	1	

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Tools	repairing bayonet scabbards	awls, spoon	....	....	....	....	1	....	....	....
		blocks, riveting	....	....	....	....	1	....	....	....
		mandrils, long	....	....	....	....	1	....	....	....
		pliers	....	....	pairs	....	1	....	....	....
		pressers	....	....	....	....	1	....	....	....
		punches	cup	....	....	....	1	....	....	....
			riveting	large	....	....	1	....	....	....
				small	....	....	1	....	....	....
			set	....	....	....	1	....	....	....
			stripping	....	....	....	1	....	....	....
		sets, flat	....	....	....	....	1	....	....	....
	sight line, rifle	....	....	....	....	1	1	1	1	1	1
Vices	hand, 16-oz.	....	....	....	....	1	1	1	1	1	1
	standing, 36 lbs.	....	....	....	....	....	....	....	....	....	1
TOOLS FOR SWORDS & SCABBARDS.											Also 1 of each for armourers of mounted corps, pattern of mandril to follow pattern of scabbard in possession.
Mallets, scabbard, sword, cavalry			....	....	....	....	....	....	....	1	
Mandrils, scabbard, sword, cavalry, pattern 1885		Mark I.	....	....	....	....	....	....	....	1	
		Mark II.	....	....	....	....	....	....	....	....	
MATERIALS.											
Boxes, oilstone dust			....	....	....	....	1	....	....	1	1	1
Borax, refined			....	....	....	ozs.	2	2	2	2	2	2
Cloth, emery, fine		O.	....	....	....	quires	½	½	½	½	½	½
		F.	....	....	....	,,	½	½	½	½	½	½
Dust, oilstone			....	....	....	ozs.	6	....	....	6	6	6
Glue, best town made			....	....	....	lbs.	1	1	1	1	1	1
Paper, glass		coarse, No. 2	....	....	....	quires	½	½	½	½	½	½
		fine, No. 1½	....	....	....	,,	½	½	½	½	½	½
Resin, black			....	....	....	lbs.	½	½	½	½	½	½
Spelter, brass			....	....	....	oz.	2	2	2	2	2	2
Tin, grain			....	....	....	,,	4	4	4	4	4	4
Wire, armourers, iron, No. 20 S.W.G., soft			....			lbs.	½	½	½	½	½	½

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APPENDIX V.

(*Referred to in paragraphs* 243 *and* 245.)

SETS OF TOOLS.

CHEST, TOOL, FILLED, No. 1A.

(Bricklayer's and Mason's, General Service, except for Royal Engineers.)

Articles.	No.
Woolwich Store Charge, 2.	
Axes, pick { heads, 6½-lb.	1
helves, 34½ inches	1
Shovels, universal	1
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 1.	1
Axes, masons', 6-lb.	2
Bars, setting	1
Bevels, wood blade, 15-inch	1
Brushes, whitewash { 9-oz.	1
6 ,,	1
Chisels { brick { 24-inch	1
18 ,,	1
12 ,,	1
masons' { 2½ ,,	1
2 ,,	1
1½ ,,	1
1 ,,	1
Hammers { brick	1
masons' { chisel point, 5-lb.	1
double pick, 8-lb.	1
mash	1
spalling, 10-lb.	1
Woolwich Store Charge, 8.	
Levels, F. S., 2-ft. 6-in.	1
Lines, bricklayers'	1
Mallets, masons'	1
Pins, line pairs	1
Plugs, with feathers sets	6
Points, masons'	2
Rules { collarmakers', 4-fold	1
masons', plumb	1
Squares, smiths', iron	1
Trowels { bricklayers', 12-inch	1
masons'	1
plasterers', set	1

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Chest, Tool, Filled, No. 1A (Bricklayer's and Mason's)—*cont.*

Articles.	No.
The undermentioned are not carried in the Chest, and will be separately demanded, charged, and accounted for.	
Woolwich Store Charge, 8.	
Sieves, masons'	1

CHEST, TOOL, FILLED, No. 3A, (Carpenter's, G.S.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 3	1
Adzes, carpenters' { heads	1
{ handles	1
Augers { shell { 1½-inch	1
{ 1¼ „	1
{ 1⅛ „	1
{ 1 „	1
{ ⅞ „	1
{ ¾ „	1
{ ⅝ „	1
{ ½ „	1
{ handles { 18-inch	1
{ 16 „	1
{ 13½ „	1
{ 12 „	1
Awls { blades, brad	24
{ handles, brad { large	3
{ small	3
Axes, carpenters', 6½-lb.	1
Bags, tool, carpenters'	1
Bars, crow, 2 ft. 3 in.	1
Bevels, steel blade, 12-inch	1
Braces, carpenters', with 24 bits*	1

* Detail of bits:—

Braces, carpenters', bits	centre, 1½, 1, ¾, ⅝, ½, ⅜, and ¼-inch	7
	countersink { flut	1
	{ rose	1
	dowling sash...	1
	gouge, 7/16, ⅜, 5/16, ¼, 3/16, and ⅛-inch	6
	nose, ⅜, 4/10, ¼, 2/10, and ⅛-inch	5
	rimer, square	1
	screwdriver	1
	taper	1
		6

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Chest, Tool, Filled, No. 3A (Carpenter's, G.S.)—*continued.*

Articles.		No.
Chisels firmer	$1\frac{1}{2}$-inch	1
	1 "	1
	$\frac{3}{4}$ "	1
	$\frac{1}{2}$ "	1
hand, cold	1 inch × 8 inches	1
	$\frac{3}{4}$ " × 8 "	1
mortice	$\frac{1}{2}$-inch	1
	$\frac{3}{8}$ "	1
	$\frac{1}{4}$ "	1
socket	$1\frac{1}{2}$ "	1
	1 "	1
	$\frac{3}{4}$ "	1
	$\frac{5}{8}$ "	1
	$\frac{1}{2}$ "	1
Compasses common, 7-inch		pairs 1
wing, 10 "		" 1
Drivers, screw, G. S.	14-inch	1
	6 "	1
Files bastard	half-round, 14-inch	2
	round 14 "	1
saw, three-square	hand $5\frac{1}{2}$ "	18
	tenon 4 "	6
Gauges, carpenters marking		1
mortice		1
Gimlets common		8
spike	$\frac{3}{8}$-inch	2
	$\frac{1}{4}$ "	2
Gouges firmer	$\frac{3}{8}$-inch	1
	$\frac{1}{2}$ "	1
	$\frac{3}{4}$ "	1
pecking, 1-inch		1
Hammers riveting, 24-oz.		1
smiths, sledge, 10-lb.		1
wheelers, shoeing		1
Handles, file large		2
middling		2
small		2

Woolwich Store Charge, 8.

Lines, carpenters		1
Mallets, carpenters		1
Pencils, carpenters		12
Pincers, carpenters	pairs	1
Pins, draw-bore 16-inch		1
12 "		2
Planes bead		1
jack, double iron		1
plough		1
rabbet, skew		1
smoothing, G. S.		1

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Chest, Tool, Filled, No. 3A (Carpenter's, G.S.)—*continued.*

Articles.	No.
Planes, trying	1
Pots, glue, 1-quart	1
Punches, carpenters { large	1
{ small	1
Rasps, coarse, half-round, 12-inch	1
Reels, carpenters' line	1
Rules, carpenters', common	1
Saws { compass	1
{ hand, 26-inch	1
{ tenon, 19-inch	1
Sets, saw, hand	1
Shaves, spoke { 4-inch	1
{ 3¼ ,,	2
Spanners, McMahon, 15-inch	2
Squares { carpenters, 9-inch	1
{ smiths, iron	1
Stones, oil, carpenters'	1
Woolwich Store Charge, 11.	
Chalk, white (for line, carpenters) lbs.	¼
Woolwich Store Charge, 25.	
Brushes, paint, sash tool, No. 6	1
Woolwich Store Charge, 26.	
Stones, rag	1

CHEST, TOOL, FILLED, No. 4A.
(Carpenter's, Plain, G.S.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 4	1
Adzes, carpenters' { heads	1
{ handles	1
Augers { screw, common { 2-inch	1
{ 1 ,, 29 inches long	1
{ ¾ ,,	1
{ handles { 18-inch	1
{ 16 ,,	1
{ 13½ ,,	1
Baskets, tool	1
Chisels { hand, cold, ¾ inch × 8 inches	1
{ socket, ¾-inch	1
Compasses, wing, 10-inch pairs	1
Drivers, screw, G. S., 12-inch	1

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Chest, Tool, Filled, No. 4A (Carpenter's, Plain, G.S.)—*cont.*

Articles.		No.
Files, saw, three-square	crosscut, 9-inch	2
	hand, 5½-inch	3
Gimlets	common	3
	spike, $\frac{5}{16}$-inch	2
Hammers	riveting, 24-oz.	2
	wheelers, shoeing	1
Handles, file, small		2
Woolwich Store Charge, 8.		
Knives, drawing, carpenters		1
Lines, carpenters		1
Pencils, carpenters		6
Pincers, carpenters	pairs	1
Punches, carpenters', small		1
Reels, carpenters' line		1
Rules, collarmakers, 4-fold		2
Saws, hand, 26-inch		1
Sets, saw, hand		1
Shaves, spoke, 3¼-inch		1
Spanners, McMahon, 15-inch		1
Squares, carpenters', 9-inch		1
Woolwich Store Charge, 10.		
Locks, pad, iron, small		1
Woolwich Store Charge, 11.		
Chalk, white (for line, carpenters')	lb.	¼
Woolwich Store Charge, 26.		
Stones, rag		1

CHEST, TOOL, FILLED, No. 5A.

(Collarmaker's and Saddler's.)

Articles.		No.
Woolwich Store Charge, 7.		
Chests, tool, empty, No. 5		1
Awls, blades	backing	6
	buckling, 4-inch	3
	buckling, 2¾ "	3

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Chest, Tool, Filled, No. 5A (Collarmaker's and Saddler's)—*cont.*

Articles.								No.
Awls	blades	harness	drawing					2
			garnishing	2¼-inch				2
				1⅞ ,,				2
				1⅝ ,,				3
				1½ ,,				4
				1⅜ ,,				4
				1⅛ ,,				4
				1¼ ,,				3
		pannel		5¾ ,,				2
				4 ,,				2
	handles		drawing					4
			harness					4
			pannel					4
Bones, hollow								1
Chisels, hand, cold, ¾-inch × 8 inches								1
Clams, collarmakers							pairs	1
Claws, nail								1
Compasses, common, 7-inch							pairs	1
Creases	double							1
	single							1
Drivers, screw, G. S., 6-inch								1
Gimlets, common, ⅛-inch								1
Hammers	collarmakers							1
	riveting	24-oz.						1
		8-oz.						1
		saddle-seat						1
Irons	collar	34-inch						1
		29 ,,						1
		23 ,,						1
	pricking	12-stitch						1
		8 ,,						1
		5 ,,						1
	seat, stuffing, 14-inch							1

Woolwich Store Charge, 8.

Knives	clasp							1
	gauge-plough							1
	half-round							1
	head							1
Lead, punching, collarmakers, 8-lb.								1
Mallets	collar							1
	tinmans							1
Needles, collar	half-moon	6½-inch						1
		5½ ,,						1
		4½ ,,						1
	packing	1						2
		2						2
		3						2
		4						3
		5						3
		6						3

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Chest, Tool, Filled, No. 5A (Collarmaker's and Saddler's)—*cont.*

Articles.	No.
Needles darning, 4-inch	6
Needles harness	100
Needles saddlers sewing	100
Needles saddlers stitching	25
Palms, collarmakers	1
Pincers, saddlers pairs	1
Pliers, flat nose „	1
Punches, oval No. 31	1
Punches, oval „ 30	1
Punches, oval „ 28	1
Punches, oval „ 27	2
Punches, oval „ 24	1
Punches, oval „ 23	1
Punches, oval „ 22	2
Punches, oval „ 20	2
Rasps, shoemakers, 10-inch	1
Rules, collarmakers, 4-fold	1
Scissors, tailors pairs	1
Shaves, collarmakers	1
Spikes, marline, wood	1
Thimbles, tailors	2
Tools, edge No. 1	1
Tools, edge „ 2	1
Tools, edge „ 3	1
Woolwich Store Charge, 26.	
Stones rag	1
Stones rub, scythe	1
Steels, butchers	1
The undermentioned are not carried in the Chest, and will be separately demanded, charged, and accounted for:—	
Woolwich Store Charge, 7.	
Cards, towsing, small* pairs	1

* Towsing cards will not be issued unless specially demanded. When issued to R.H.A. and Field Batteries they will be carried in the Forge Limber Wagon.

CHEST, TOOL, FILLED, No. 6A.

(Cooper's, General Service, except for Royal Engineers.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 6	1
Adzes, coopers' notching	1
Adzes, coopers' rounding	1

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Chest, Tool, Filled, No. 6A (Cooper's, General Service)—*cont.*

Articles.	No.
Axes, coopers'	1
Borers, bung	1
Chisels, hand, cold, 1-inch by 8 inches	1
Chives, coopers' — 7¼-inch	1
Chives, coopers' — 6¾ "	1
Compasses, wing, 12-inch	1 pairs
Drivers, coopers' — kneed	1
Drivers, coopers' — socket, iron	1
Files, saw, three-square, hand, 5½-inch	6
Froes (with handle)	1
Hammers — coopers', hand, 3½-lb.	1
Hammers — riveting, 8-oz.	1
Howels, barrel	1
Irons, bick upon wood	1
Jiggers	1
Jointers, F. S.	1
Woolwich Store Charge, 8.	
Knives — cramming	1
Knives — drawing, coopers'	1
Knives — notching	1
Pincers, carpenters'	1 pairs
Punches, coopers' — large	1
Punches, coopers' — small	1
Rules, coopers'	1
Saws — compass	1
Saws — hand, 26-inch	1
Shaves, coopers' — inside cask	1
Shaves, coopers' — inside pail	1
Shaves, coopers' — outside cask	1
Shaves, coopers' — round	1
Stocks — coopers'	1
Stocks — crows ... barrel	1
Stocks — crows ... pail	1
Stones, oil, carpenters	1
Vices, screw, iron	1
Woolwich Store Charge, 26.	
Stones, rag	1

CHEST, TOOL, FILLED, No. 7A.
(Farrier's and Shoeing Smith's, General Service, except Horse and Field Artillery.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 7	1
Bags, tool, farriers'	1

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Chest, Tool, Filled, No. 7 (Farrier's, &c., General Service)—*cont.*

Articles.	No.
FORGE TOOLS.	
Chisels, farriers', handled	2
Cutters, anvil, nail	1
Cutters, half-round	2
Cresses, farriers' (set of 2)	1 set
Hammers, farriers' — sledge, 9½-lb.	1
Hammers, farriers' — turning	1
Fullers, farriers', handled	2
Woolwich Store Charge, 8.	
Pokers, smiths'	1
Pritchels, farriers'	4
Slices, farriers'	1
Stamps, farriers'	2
Stones, rag, farriers'	1
Tongs, farriers' — turning (3 sizes)	3 pairs
Tongs, farriers' — fire	1 pair
Woolwich Store Charge, 7.	
SHOEING TOOLS.	
Aprons, basil, brown	2
Buffers, farriers'	2
Hammers, farriers' — pointing	1
Hammers, farriers' — shoeing	1
Woolwich Store Charge, 8.	
Knives — drawing, farriers'	6
Knives — searching	2
Pincers, farriers'	1 pair
Rasps, farriers', 16-inch	6
Stakes, farriers'	1

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CHEST, TOOL, FILLED, No. 11A.

(Smiths', General Service.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 11	1
Braces, smiths'	1
Braces, smiths', bits — countersink, rose	1
Braces, smiths', bits — riner, half-round	1
Braces, smiths', bits — riner, square	1
Callipers, 10-inch	1 pair

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Chest, Tool, Filled, No. 11A (Smith's, General Service)—*cont.*

Articles.	No.
Chisels—hand, cold—1 inch × 8 inches	2
Chisels—hand, cold—¾ „ × 8 „	2
Chisels—smiths'—cold	1
Chisels—smiths'—hot	2
Compasses, wing, 10-inch	1 pair
Drivers, screw, G. S.—14-inch	1
Drivers, screw, G. S.—6 „	1
Files, bastard—flat—14-inch	10
Files, bastard—flat—10 „	6
Files, bastard—flat—8 „	4
Files, bastard—half-round—14 „	4
Files, bastard—half-round—10 „	4
Files, bastard—round—12 „	4
Files, bastard—round—8 „	2
Files, bastard—rubbers, ½ thick, 16-inch	3
Files, bastard—square—10-inch	2
Files, bastard—square—8 „	2
Files, bastard—three-square—12 „	1
Files, bastard—three-square—7 „	1
Files, bastard—warding, 5-inch	2
Files, bastard—„ cut on one side, 3½-inch	2
Hammers—riveting, 24-oz.	1
Hammers—smiths'—hand, 3-lb.	1
Hammers—smiths'—setting	1
Hammers—smiths'—sledge, 10-lb.	1
Hammers—smiths'—upland, 7-lb.	1
Handles, file—large	2
Handles, file—small	4
Holdalls, smiths'	1
Woolwich Store Charge, 8.	
Pincers, carpenters'	1 pair
Plates, screw, 10 taps, 20 hole	1
Punches, smiths'—cold	2
Punches, smiths'—hot—⅛-inch	1
Punches, smiths'—hot—¼ „	1
Punches, smiths'—hot—⅜ „	1
Rules, carpenters', common	1
Saws, cutting metal, 10-inch	1
„ „ „ blades, 10-inch (spare)	1
Spanners, McMahon, 15-inch	1
Squares, smiths', iron	1
Stones, oil, smiths'	1
Tongs, smiths'—bolt	1 pair
Tongs, smiths'—forebit	1 „
Tongs, smiths'—forge, large	1 „
Tongs, smiths'—hammer	1 „
Tongs, smiths'—hollow bit	1 „
Tongs, smiths'—plier	1 „

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Chest, Tool, Filled, No. 11A (Smith's, General Service)—*cont.*

Articles.	No.
Tools, bow, drilling { bows, smiths'	1
boxes	2
breast-plates, smiths'	1
drills sets	1
stocks	1
strings, smiths' knots	6
Vices, hand, 16-oz.	1
The undermentioned are not carried in the Chest, and will be separately demanded, charged, and accounted for:—	
Woolwich Store Charge, 7.	
Chests, stocks and dies, Whitworth thread, 1⅛-inch to ¼-inch, filled	1
Woolwich Store Charge, 8.	
Vices, standing, 36 lbs.	1

CHEST, TOOL, FILLED, No. 12A.

Whitesmith's or Tinman's, General Service, except for Royal Engineers.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 12	1
Awls, scoring	1
Bellows, tinman's	1
Chisels, tinman's { 1-inch	1
¼-inch	1
Compasses, common, 7-inch pairs	1
Files, bastard, flat, 12-inch	2
Groovers	1
Hammers, tinman's { creasing, 10-oz.	1
hollowing	1
riveting, 16-oz.	1
Hooks, shave, 1½-inch	1
Irons { creasing, 11-lbs.	1
soldering, tinman's	2

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Chest, Tool, Filled, No. 12A (Whitesmith's, &c.)—*cont.*

Articles.	No.
Woolwich Store Charge, 8.	
Knives, laboratory	1
Mallets, tinman's	1
Pots, fire, tinman's	1
Rasps, fine, half-round, 12-inch	1
Shears, tinman's { scotch	1
Shears, tinman's { stock	1
Squares, smith's, iron	1

CHEST, TOOL, FILLED, No. 13A.
(Painter's, General Service, except for Royal Engineers.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 13	1
Brushes, sable, writing { crow, large	1
Brushes, sable, writing { duck, large	1
Brushes, sable, writing { goose { large	1
Brushes, sable, writing { goose { small	1
Cans, paint { 7½ inches diameter	1
Cans, paint { 7 " "	1
Woolwich Store Charge, 8.	
Knives { palette, 9-inch	1
Knives { stopping	1
Pots, writing	1
Woolwich Store Charge, 25.	
Brushes, paint { ground, 000	2
Brushes, paint { unground, 000	2
Brushes, paint { sash tool { No. 2	2
Brushes, paint { sash tool { " 4	2
Brushes, paint { sash tool { " 6	2

CHEST, TOOL, FILLED No. 3c.
(Wheeler's and Saddletreemaker's, General Service, except for Royal Engineers and Field Artillery.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 3	1
Adzes, carpenters' { heads	1
Adzes, carpenters' { handles	1

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Chest, Tools, Filled, No. 3c (Wheeler's, &c.)—*continued.*

Articles.	No.
Augers — sheil — 1½-inch	1
1¼ „	1
1⅛ „	1
1 „	1
⅞ „	1
¾ „	1
⅝ „	1
½ „	1
handles — 18-inch	1
16 „	1
13½ „	1
12 „	1
Awls — blades, brad	24
handles, brad — large	3
small	3
Axes, wheelers', 7-lbs.	1
Bags, tool, carpenters'	1
Bars, crow, 2 feet 3 inches	1
Bevels, steel blade, 12-inch	1
Braces, carpenters, with 24 bits*	1
Buzzes — ¾-inch	1
⅝ „	1
Chisels — boxing — large	1
small	1
firmer — ⅜-inch	1
¼ „	1
⅛ „	1
firmer, coachmakers' — 1¾-inch	1
1⅝ „	1
1½ „	1
1⅜ „	1
1¼ „	1
1⅛ „	1
1 „	1
⅞ „	1
¾ „	1
⅝ „	1
½ „	1
⅜ „	1
¼ „	1
hand, cold — 1 inch × 8 inches	1
¾ inch × 8 inches	1
mortice, ¼-inch	1

* Detail of bits:—

Braces, carpenters', bits	centre, 1½, 1, ⅞, ¾, ⅝, ½, and ⅜-inch	7
	countersink — flat	1
	countersink — rose	1
	dowling sash	1
	gouge, 7/16, ⅜, ⅝, 5/16, ¼, 3/16, and ⅛-inch	6
	nose, ⅛, 1/16, ¼, 3/16, and ⅛-inch	5
	rimer, square	1
	screwdriver	1
	taper	1

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Chest, Tool, Filled, No. 3c (Wheeler's, &c.)—*continued.*

Articles.	No.
Compasses .... common, 7-inch .... pairs	1
wing, 10 ,, ... ,,	1
Drivers, screw, 14-inch	1
G. S. 6 ,, ...	1
Files bastard half-round, 14-inch	2
bastard round, 14 ,, ...	1
saw, three-square hand, 5½-inch	18
saw, three-square tenon, 4 ,, ...	6
Gauges carpenters' marking	1
carpenters' mortice	1
saddletreemakers' .... sets	1
Gimlets common	8
spike ⅜-inch	2
spike ¼ ,, ...	2
Gouges boxing 2-inch	1
boxing 1¾ ,, ...	1
firmer ⅝ ,, ...	1
firmer ½ ,, ...	1
firmer ⅜ ,, ...	1
pecking, 1-inch	1
Hammers riveting 24-oz.	1
riveting 16 ,, ...	1
riveting saddleseat	1
smiths', sledge, 10-lbs.	1
wheelers', shoeing	1
Woolwich Store Charge, 8.	
Knives, drawing, carpenters'	1
Lines, carpenters'	1
Mallets, carpenters'	1
Pencils, carpenters'	12
Pincers, carpenters' .... pairs	1
Pins, drawbore 16-inch	1
Pins, drawbore 12 ,, ...	2
Planes bead	1
Planes jack, double iron	1
Planes plough	1
Planes rabbet, skew	1
Planes smoothing, G. S.	1
Planes trying	1
Pots, glue, 1-pint	1
Punches, carpenters' large	1
Punches, carpenters' small	1
Rasps, coarse, half-round, 12-inch	1
Reels, carpenters' line	1
Rules, carpenters', common	1
Saws compass	1
Saws dovetail, brass back	1
Saws frame, 15-inch	1
Saws hand, 26-inch	1
Saws tenon, 19-inch	1

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Chest, Tool, Filled, No. 3c (Wheeler's, &c.)—*continued.*

Articles.	No.
Screws, thumb	1
Sets, saw, hand	1
Shaves, spoke { 4-inch	2
Shaves, spoke { 3¼ ,,	2
Spanners, McMahon, 15-inch	1
Squares { smiths', iron	1
Squares { carpenters' { 9-inch	1
Squares { carpenters' { 4 ,,	1
Stones, oil, carpenters'	1
Vices { bench, saddletreemakers	1
Vices { hand, 16-oz.	1
Woolwich Store Charge, 11.	
Chalk, white (for line, carpenters) lb.	¼
Woolwich Store Charge, 25.	
Brushes, paint, sash tool, No. 6 (for glue)	1
Woolwich Store Charge, 26.	
Stones, rag	1
The undermentioned are not carried in the chest, and will be separately demanded, charged, and accounted for :—	
Woolwich Store Charge, 8.	
Sampsons*	1

* "Sampsons" are only issued when specially demanded.

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Allowances.
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TOOLS FOR MILITARY WORKSHOPS.

(*Referred to in paragraph* 245.)

CHEST, TOOL, FILLED, No. 1B.

(Bricklayer's and Mason's, Regimental.)

Packed in Two No. 1 *Chests, and forming One Set.*

Articles.	No.
Woolwich Store Charge, 2.	
Shovels, universal	2
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 1	2
(BRICKLAYER'S TOOLS.)	
Axes, brick	2
Bars, crow, 3 feet 6 inches	1
Bevels, brass blade	2

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Chest, Tool, Filled, No. 1B (Bricklayer's and Mason's)—*cont.*

Articles.	No.
Chisels brick 24-inch	2
Chisels brick 18 „	2
Chisels brick 12 „	2
Chisels masons', 2¼-inch	2
Hammers, brick	3
Woolwich Store Charge, 8.	
Lines, bricklayers'	2
Pins, line pairs	2
Rules carpenters', common	2
Rules masons', plumb	2
Trowels bricklayers', pointing cross joint	1
Trowels bricklayers', pointing tuck	1
Trowels plasterers', set	2
(MASON'S TOOLS.)	
Woolwich Store Charge, 7.	
Bars, setting	2
Bevels, wood blade, 12-inch	1
Chisels, masons' 2½-inch	2
Chisels, masons' 2 „	3
Chisels, masons' 1½ „	2
Chisels, masons' 1¼ „	2
Chisels, masons' ribbing	1
Hammers, masons' double pick 8-lbs.	1
Hammers, masons' double pick 4 „	1
Hammers, masons' mash	1
Hammers, masons' spalling, 4-lbs.	1
Woolwich Store Charge, 8.	
Lines, bricklayers'	1
Mallets, masons'	1
Pins, line pairs	1
Points, masons'	6
Rules carpenters', common	1
Rules masons', plumb	1
Trowels, masons'	2
The undermentioned are not carried in the Chest, and will be separately demanded, charged, and accounted for: —	
(BRICKLAYER'S TOOLS.)	
Woolwich Store Charge, 7.	
Hods, mortar	2
Woolwich Store Charge, 8.	
Levels, wood, 5 feet	2
Sieves, masons	1
Squares, masons	2
(MASON'S TOOLS.)	
Woolwich Store Charge, 8.	
Levels, wood, 10 feet	1
Squares, masons	1

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CHEST, TOOL, FILLED, No. 3B.
(Carpenter's, Regimental.)

Packed in Three No. 3 Chests, and forming One Set.

Articles.				No.
		Woolwich Store Charge, 7.		
Chests, tool, empty, No. 3				3
Adzes, carpenters'	heads			2
	handles			2
Augers	shell	1½-inch		1
		1¼ ,,		1
		⅞ ,,		1
		¾ ,,		1
		⅝ ,,		1
		½ ,,		1
	handles	18 ,,		1
		16 ,,		1
		13½ ,,		1
		12 ,,		1
Awls	blades, brad			12
	handles, brad	large		6
		small		6
Axes	carpenters', 6½-lbs.			3
	hand, 3-lbs.			3
Bags, tool, carpenters'				3
Bevels, steel blade, 12-inch				3
Braces, carpenters', with 24 bits*				2
Chisels	firmer	1½-inch		2
		1⅜ ,,		2
		1¼ ,,		2
		1 ,,		2
		¾ ,,		2
		½ ,,		2
		⅜ ,,		2
		¼ ,,		2
	hand, cold	¾ ,, × 8 inches		3
		1 ,, × 8 ,,		3
	mortice	½ ,,		3
		⅜ ,,		3
		¼ ,,		3

* Detail of bits:—

Braces, carpenters', bits	centre, 1⅛, 1, ⅞, ¾, ⅝, ½, and ⅜-inch		7
	countersink	flat	1
		rose	1
	dowling sash		1
	gouge, 7/16, ⅜, 5/16, ¼, 3/16, and ⅛-inch		6
	nose, ⅜, 5/16, ¼, 3/16, and ⅛-inch		5
	rimer, square		1
	screwdriver		1
	taper		1
			24

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Chest, Tool, Filled, No. 3B (Carpenter's, Regimental)—*continued.*

Articles.	No.
Chisels, socket { 1½-inch	2
1 „	2
¾ „	2
Compasses, common, 7-inch (pairs)	3
Drivers, screw, G.S. { 14-inch	2
6 „	3
Files { bastard { flat, 14-inch	3
half-round, { 14-inch	3
10 „	3
round, 14-inch	3
saw, three-square { hand, 5½-inch	3
tenon, 4 „	3
Gauges, carpenters' { cutting	1
marking	2
mortice	3
Gimlets { common	6
spike { ⅜-inch	6
¼ „	6
Gouges { firme { 1-inch	3
¾ „	3
½ „	3
pecking, 1-inch	2
Hammers { claw { 28-oz.	2
20 „	1
riveting { 24-oz.	1
8 „	2
Woolwich Store Charge, 8.	
Lines, carpenters' (pairs)	3
Mallets, carpenters'	3
Pencils, carpenters'	9
Pincers, carpenters' (pairs)	3
Planes { bead	2
hollows and rounds (pairs)	2
jack, double iron	3
phillister, sash	2
plough	1
smoothing, G.S.	3
trying	2
Pliers { flat nose (pairs)	2
side cutting, 7-inch („)	1
Pots, glue, 1-quart	1
Punches, carpenters' { large	3
small	3
Rasps, coarse { flat, 12-inch	2
half-round, 12-inch	1
Reels, carpenters' line	3
Rules, carpenters', common	3
Saws { dovetail, brass back	2
frame, 15-inch	3

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Chest, Tool, Filled, No. 3B (Carpenter's, Regimental)—*continued.*

Articles.	No.
Saws { hand, 26-inch	3
keyhole	3
tenon, 14-inch	3
Sets, saw, hand	3
Shaves, spoke { 4-inch	2
3¼-inch	2
Spanners, McMahon, 15-inch	2
Squares, carpenters' { 12-inch	3
9 „	3
Stones, oil, carpenters'	3
Woolwich Store Charge, 11.	
Chalk, white lb.	¾
Woolwich Store Charge, 25.	
Brushes, paint, sash tool, No. 6	2
The undermentioned is not carried in the Chest, and will be separately demanded, charged, and accounted for :—	
Woolwich Store Charge, 7.	
Grindstone, F. S., 18-inch	1

CHEST, TOOL, FILLED, No. 6B.
(Cooper's, Regimental.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 6	1
Adzes, coopers', notching	1
Chisels, hand, cold, 1-inch × 8 inches	1
Compasses, wing, 12-inch pairs	1
Drivers, coopers', kneed	1
Froes (with handle)	1
Hammers { coopers', hand, 3½-lbs.	1
riveting, 8-oz.	1
Howels, barrel	1
Jointers, F. S.	1
Woolwich Store Charge, 8.	
Knives { drawing, coopers	1
hollowing	1
Pincers, carpenters' pairs	1
Planes, jack, double iron	1
Punches, coopers', large	1

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Chest, Tool, Filled, No. 6B (Cooper's, Regimental)—*continued.*

Articles.	No.
Rules, coopers'	1
Saws, hand, 26-inch	1
Shaves, coopers', inside, cask	1
Stocks, coopers'	1
Stones, oil, carpenters'	1

CHEST, TOOL, FILLED, No. 12D.
(Plumber's, Painter's, and Glazier's, Regimental.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 12	1
Bosses, plumbers' 5-inch	1
Bosses, plumbers' 3 ,,	1
Bosses, plumbers' 1½ ,,	1
Cans, paint 7½ inches diameter	1
Cans, paint 7 ,, ,,	1
Chisels, smiths', cold	1
Compasses, wing, 10-inch	1 pairs
Diamonds, glaziers'	1
Dressers, plumbers'	1
Hammers glaziers'	1
Hammers plumbers', 3-lbs.	1
Hooks, shave, 1½-inch	1
Irons, soldering, plumbers' 4-lbs.	1
Irons, soldering, plumbers' 1¾ ,,	1
Woolwich Store Charge, 8.	
Knives cutting	1
Knives hacking	1
Knives palette, 9-inch	1
Knives stopping	1
Ladles, melting, 1-pint	1
Mallets, plumbers'	1
Pipes, blow, 12-inch	1
Pliers gas	1 pairs
Pliers round-nose	1 ,,
Pots, melting	1
Rules, glaziers' 2-ft.	1
Rules, glaziers' T, 2-ft. 6-in.	1
Squares, smiths', iron	1
Tongs, gas fitters' 2-inch	1 pairs
Tongs, gas fitters' 1½ ,,	1 ,,
Tongs, gas fitters' 1 ,,	1 ,,
Tongs, gas fitters' ¾ ,,	1 ,,
Tongs, gas fitters' ½ ,,	1 ,,

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Chest, Tool, Filled, No. 12D (Plumber's, Painter's, &c.)—*cont.*

Articles.	No.
Woolwich Store Charge, 11.	
Bottles, tin, oil, with screw top, 2 quarts	3
Woolwich Store Charge, 25.	
Brushes, paint — ground, 000	3
Brushes, paint — sash tool — No. 2	1
Brushes, paint — sash tool — „ 4	1
Brushes, paint — sash tool — „ 6	1

CHEST, TOOL, FILLED, No. 11D.
(Smith's, Regimental.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 11	1
Bags, tool, farriers'	1
Aprons, basil, brown	2
Braces, smiths'	1
„ „ bits — countersink — flat	1
„ „ bits — countersink — rose	1
„ „ bits — rimer — half-round	1
„ „ bits — rimer — square	1
Callipers, 10-inch .... pairs	1
Chisels — farriers', handled	2
Chisels — smiths', cold	4
Compasses, wing, 10-inch .... pairs	1
Drivers, screw, G.S. — 14-inch	1
Drivers, screw, G.S. — 6 „	1
Files, bastard — flat — 14-inch	1
Files, bastard — flat — 10 „	1
Files, bastard — flat — 8 „	1
Files, bastard — half-round — 14 „	1
Files, bastard — half-round — 10 „	1
Files, bastard — round — 12 „	1
Files, bastard — round — 8 „	1
Files, bastard — rubbers, ½-thick, 16-inch	1
Files, bastard — square — 10-inch	1
Files, bastard — square — 8 „	1
Files, bastard — three-square — 12 „	1
Files, bastard — three-square — 7 „	1
Files, bastard — warding — 5 „	2
Files, bastard — warding — cut on one side, 3½-inch	2
Hammers — farriers' — pointing	1
Hammers — farriers' — shoeing	1
Hammers — farriers' — sledge, 9½-lbs.	2
Hammers — smiths', hand, 3-lbs.	2
Handles, file, middling	16

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Chest, Tool, Filled, No. 11D (Smith's, Regimental)—*continued.*

Articles.	No.
Woolwich Store Charge, 8.	
Knives { drawing, farriers'	1
Knives { searching „	1
Pincers, farriers'	1
Pliers, flat nose	1
Pokers, smiths'	1
Punches, smiths' { cold	3
Punches, smiths' { hot { $\frac{5}{8}$-inch	1
Punches, smiths' { hot { $\frac{1}{2}$ „	1
Punches, smiths' { hot { $\frac{3}{8}$ „	1
Rasps, farriers', 16-inch	1
Saws, cutting metal, 10-inch	1
Slices, farriers'	1
Spanners, McMahon, 15-inch	1
Stakes, farriers'	2
Stamps, farriers'	1
Tongs { farriers', turning, small	1
Tongs { smiths', forge { large	1
Tongs { smiths', forge { small	1
Tools, bow, drilling { bows, smiths'	1
Tools, bow, drilling { boxes	1
Tools, bow, drilling { breast-plates, smiths'	1
Tools, bow, drilling { drills	2 sets
Tools, bow, drilling { stocks	1
Tools, bow, drilling { strings, smiths'	1 knots
Vices, hand, 16-oz.	1

N.B.—Anvils, bellows, and standing vices, being fixtures, are a part of the building.

CHEST, TOOL, FILLED, No. 12C.
(Whitesmith's or Tinman's, Regimental.)

Articles.	No.
Woolwich Store Charge, 7.	
Chests, tool, empty, No. 12	1
Awls, scoring	1
Chisels, tinman's { 1-inch	1
Chisels, tinman's { $\frac{1}{4}$ „	1
Compasses, common, 7-inch	1 pairs
Files, bastard, flat, 12-inch	2
Groovers	1
Hammers, tinman's { creasing, 10-oz.	1
Hammers, tinman's { riveting, 16-oz.	1

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Chest, Tool, Filled, No. 12c (Whitesmith's or Tinman's Regimental)—*continued.*

Articles.	No.
Hooks, shave, 1½-inch	1
Irons { creasing, 11-lbs.	1
Irons { soldering, tinman's	2
Woolwich Store Charge, 8.	
Knives, laboratory	1
Mallets, tinman's	1
Pots, fire, tinman's	1
Rasps, fine, half-round, 12-inch	1
Shears, tinman's, stock	1
Squares, smith's, iron	1

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APPENDIX VI.

(*Referred to in paragraph* 218.)

CAMP EQUIPMENT.

Proportions for all Services. Standing Camps.

TABLE 1.	Proportion.
Woolwich Store Charge, 2.	
Axes { felling, curved helve; hand .... }	10 per regiment of cavalry and battalion of infantry, 4 per staff or other unit.
Axes { pick { heads, 6½ lbs.; helves, 34½ ins. } }	10 per regiment of cavalry and battalion of infantry, 4 per staff or other unit.
Bags, letter, field	1 per office of staff units.
Bars, crow	4 per regiment of cavalry and battalion of infantry, 1 per staff or other unit.
Barrows, wheel, intrenching	8 per regiment of cavalry, 3 per other mounted unit.
Blankets, horse, brown	1 per horse public property.
Boxes, stationery, field	1 per office (for staff units only).
Brooms, birch	12 per regiment of cavalry, or battalion of infantry, 6 per staff or other unit.
Buckets*	1 per 4 horses or less, and 1 per tent (except office tents).
Chairs, camp	1 per G.O.C.

* Pails iron, galvanised, 3 or 4 gallons, may be issued in lieu.

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Camp Equipment—*continued.*

Table 1—*continued.*

	Proportion.
Cords, forage	1 per 8 mounted N.C.O. and men or less.
Covers, saddle	1 per set of saddlery or single set of harness, 2 per double set of harness.
Flags, distinguishing	As required.
Hooks, bill	20 per battalion of infantry, 10 per regiment of cavalry, 4 per other unit.
Kettles, camp, oval	1 per 8 N.C.O. and men.
Lamps, candle	1 per office tent (staff units only).
Lanterns, tent — folding	20 per regiment of cavalry, 4 per battalion of infantry, 2 per staff, 2 per other mounted unit, and 1 per other dismounted unit.
Lanterns, tent — distinguishing	As required.
Mallets, heel peg	1 per 3 officers' horses, 1 per 8 other horses.
Mauls, common, helved	4 per squadron of cavalry or other mounted unit, 1 per battalion of infantry.
Nets, hay	1 per horse, if specially required.
Pads, surcingle	1 per surcingle.
Pegs, picketing	1 per horse, plus 15 per cent. spare.
Posts, picket, 2½ feet	6 per 80 ft. picketing rope.
Ropes — head, cotton	1 per horse.
Ropes — heel, Mark III.	85 per cent. of the number of horses, and 5 per cent. spare.
Ropes — heel, double shackle	15 per cent. of the number of horses.
Ropes — picketing, 80 ft.	1 per 15 horses.
Racks, arm, tent	1 per N.C.O. and men's tent, except that horse, field, and mountain batteries, R.A., will draw 1 per sub-division and 1 per guard tent only.
Screens, latrine*	4 per regiment of cavalry, 6 per battalion of infantry, 2 or 3 per staff or other unit as considered necessary.
Sheets, ground, waterproof †	8 per tent, or 1 for each man in tents occupied by a less number than 8.
Shovels	10 of each per regiment of cavalry or battalion of infantry, 5 per other mounted unit, 3 per other dismounted unit.
Spades, N.P.	

* 1 extra service may be issued for bathing places if considered desirable.
† When tent bottoms are not supplied.

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Camp Equipment—*continued.*

Table 1—*continued.*	Proportion.
Stools, camp	1 per office tent (staff units only).
Surcingles, web*	1 per public service horse.
Tables, camp	1 per general officer.
Tents { circular, double, linen	1 per general officer.
Tents { complete, circular, single, linen	1 per field officer, 1 per 2 other officers, 1 per 12 N.C.O. and men, dismounted, 1 per 10 N.C.O. and men, mounted units, 30 miscellaneous per regiment, and 1 per two squadrons for squadron serjeant-major and squadron quartermaster-serjeant for cavalry, 12 miscellaneous for other mounted units, 16 miscellaneous per battalion of infantry, and 5 for other dismounted units. For staff, 1 per officer, 1 per two servants, 1 per staff office, and 3 miscellaneous.
Tents { marquee, hospital....	1 for officers' mess, 1 serjeants' mess, and 1 recreation room per regiment of cavalry or battalion of infantry (when more than 24 officers are present, 2 marquees will be allowed for officers' mess), 1 per staff unit, 3 per 2 other units.
Tubs, washing, 3½ gals.	1 per staff serjeants tent and 2 per tent for other N.C.O. and men.
Wedges, sawyers†	6 per regiment of cavalry or battalion of infantry, 4 per staff or other unit.
Woolwich Store Charge, 3.	
Stretchers, regimental	1 per unit (except staff).
Woolwich Store Charge, 4.	
Carts { ammunition, small arm	1 per regiment of cavalry or battalion of infantry if required.
Carts { water	As required—unless water is laid on to the cooking places on the camp ground when 1 per regiment of cavalry, 2 per battalion of infantry, 1 per staff or other unit only will be supplied.

* Not issued with the Mark II horse blanket.
† Supplied only when wood that requires splitting is issued.

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Camp Equipment—*continued.*

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Table 1—*continued.*	Proportion.
Woolwich Store Charge, 7.	
Hammers, sledge, smith's, 14 lbs.*	6 per regiment of cavalry or battalion of infantry, 2 per staff, 4 per other unit.
Woolwich Store Charge, 10.	
Forges, packsaddle†	2 per regiment of cavalry and 1 per other mounted unit unprovided with forge in peace equipment.
Woolwich Store Charge, 25.	
Chairs, officers'	3 per unit (except staff) for orderly rooms and quartermaster's stores.
Woolwich Store Charge, 26.	
Butchery implements	1 set per staff or other unit (*see* Table 3).
Scales, weighing, beam, iron, with triangles, and sets of weights, 5 cwt.	1 per camp.
Stones, rag, or rub	6 per regiment of cavalry or battalion of infantry, 2 per staff or other unit.
Tables, soldiers, 6 ft.	3 per unit (except staff) for orderly room and quartermaster's stores.
Woolwich Store Charge, 27.	
Blankets, G.S.	2 per W.O., N.C.O. and man.

N.B.—Mounted infantry battalions draw on the same scale as regiments of cavalry.

* Supplied only when wood that requires splitting is issued.

† If, in the opinion of the Officer Commanding, the forge work of the unit is too heavy to be satisfactorily carried out with packsaddle forges, a forge cart or forge wagon (as may be available) will be issued in lieu.

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SCALE FOR MANŒUVRES.

(Issues will be made as for Standing Camps, except in the case of the undermentioned articles).

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TABLE 2.	Proportion.
Woolwich Store Charge, 2.	
Buckets*	1 per N.C.O. and men's tent.
Cords, forage	Not to be issued.
Pegs, picketing	2 per horse, cavalry; and 1 per horse, other unit.
Ropes, picketing, 4 ft. 9 in.	1 per horse, cavalry only.
Screens, latrine	5 per battalion of infantry, 3 per regiment of cavalry, 2 per other mounted or dismounted unit.

Pails, iron, galvanised, may be issued in lieu.

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Scale for Manœuvres—*continued.*

Table 2—*continued.*	Proportion.
Tents, complete, circular, single, linen	1 per 12 N.C.O. and men in dismounted, and 1 per 10 N.C.O. and men in mounted branches, 1 for commanding officer and each field officer, 1 per 2 company officers, and 8 per headquarters of infantry battalion or cavalry regiment; units of R.A., R.E., and A.S.C. to be provided for in similar proportions.
Tents, complete, marquee, hospital	2 per battalion of infantry or regiment of cavalry, for mess and store tent purposes, 1 for 2 or more batteries R.A., companies R.E., or A.S. Corps.
Tubs, camp, washing	1 per N.C.O. and men's tent.
Hooks, bill	10 per regiment of cavalry or battalion of infantry, 4 per staff or other unit.
Wedges, iron, sawyers'*	2 per regiment of cavalry, battalion of infantry, or other unit.
Chairs, officers'	Not to be issued.
Tables, soldiers'	
Woolwich Store Charge, 7.	
Hammers, sledge, smith's,* 14 lbs.	1 per battalion of infantry, regiment of cavalry, or other unit.

* Supplied only when wood that requires splitting is issued.

BUTCHERY IMPLEMENTS.

TABLE 3.	No. per Set.	General Proportions.
Woolwich Store Charge, 26.		
Balances, spring, 4 lbs.	1	1 set per staff, and 1 set per mounted and dismounted unit.
Cases, butchery implements	1	
Sheets, ground, unserviceable*	1	
Saws, tenon, 14-in.	1	
Choppers, meat	1	
Hooks, butchers', 9-in.	6	
Knives, { cutting	1	
butchers' { flaying, large	1	
Steels, butchers'	1	
Steelyards, 56 lbs.	1	

* To place the cut up meat upon. A chopping block, if required, must be improvised.

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APPENDIX VII.

(Referred to in paragraph 317.)

TABLES SHOWING THE MATERIAL, TIME, AND WORKING PAY, ALLOWED FOR PAINTING MISCELLANEOUS CARTS, WAGONS, &c.

N.B.—For Carts, Wagons, &c., special to the Royal Artillery, see Artillery Special Instructions and Details, Part 2.

TABLE A.

Quantity of Material required for repairing bare places and painting one coat, for the following Carts, Wagons, &c.

Description.	Paint prepared, Lead Colour.		Paint prepared, Stone Colour.		Paint prepared, Red.		Putty.		Remarks.
	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Woolwich Store Charge, 2.									
Mauls, common (*or* iron-hooped)	1	0	—	—	—	—	—	—	For Heads only, per dozen, one coat.
Posts, picket, 2½ feet	0	2	—	—	—	—	—	—	
Woolwich Store Charge, 3.									
Carts, ambulance, G.S.	8	8	—	—	—	—	1	0	
Woolwich Store Charge, 4.									
Carts — ammunition, small-arm	*a*	*a*	—	—	—	—	1	2	*a* Brown, 9 lbs. 8 ozs.*
Carts — chaise	8	8	—	—	—	—	1	0	
Carts — coal	13	4	—	—	—	—	1	2	
Carts — forage	9	8	—	—	—	—	1	2	
Carts — forge	9	8	—	—	—	—	1	2	
Carts — Gibraltar, large	12	0	—	—	—	—	1	8	
Carts — Gibraltar, small	9	0	—	—	—	—	1	2	
Carts — hand, common, Mark I.	6	4	—	—	—	—	0	10	
Carts — hand, common, ,, II.	6	0	—	—	—	—	0	8	
Carts — low, projectile	6	0	—	—	—	—	0	10	
Carts — Maltese	6	4	—	—	—	—	0	10	
Carts — shot	12	0	—	—	—	—	1	8	
Carts — sling	9	8	—	—	—	—	1	2	
Carts — tip, general service	9	8	—	—	—	—	1	2	

* See note *, page 119.

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TABLE A—*continued.*

Description.	Paint prepared, Lead Colour.		Paint prepared, Stone Colour.		Paint prepared, Red.		Putty.		Remarks.
	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Carts ... ... transport { spring ... ... tip	10	0	—	—	—	—	1	2	
trench	—	—	—	—	3	12	0	12	
water	9	8	—	—	—	—	1	2	
watering { barrel ... ... box	14	4	—	—	—	—	1	8	
Woolwich Store Charge, 3.									
Wagons ... ambulance { equirotal ... ... Mark III, IV, and V...	15	8	—	—	—	—	2	0	
field hospital, store	19	8	—	—	—	—	2	8	
pharmacy	10	0	3	0	—	—	1	0	
surgery, spring	15	8	—	—	—	—	2	0	
Woolwich Store Charge, 4.									
Wagons ... ammunition, small-arm (with limber) ...	*b*	*b*	—	—	—	—	1	8	*b* Brown, 13 lbs. 8 ozs.*
bakery ... ... bread and meat	22	8	—	—	—	—	2	12	
forge { equirotal ... ... lock under	19	12	—	—	—	—	2	4	
	18	12	—	—	—	—	2	4	
general service { equirotal ... ... (lock under) ... Royal Engineer... Mark V, VI, and VII...	16	0	—	—	—	—	2	0	
	15	8	—	—	—	—	2	0	
heavy, spring	16	0	—	—	—	—	2	0	
office	15	4	8	0	—	—	2	12	
siege, equirotal...	19	8	—	—	—	—	2	12	
sling (with limber) { 12 tons ... ... 7 ,, ... 6 ,, ...	13	8	—	—	—	—	2	4	
	8	8	—	—	—	—		12	
	15	0	—	—	—	—	2	0	
Woolwich Store Charge, 10.									
Jacks, lifting, general service	0	4	—	—	—	—	—	—	

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	Woolwich Store Charge, 13.									
Carriages, field, machine gun	·303 Maxim (Mark I)	Cavalry	6	8	—	—	—	—	0	8
		Infantry	3	8	—	—	—	—	0	4
	Nordenfelt, 3 barrel (Mark I), also Gardner, 2 barrel	Cavalry ...	6	4	—	—	—	—	0	8
		Infantry ...	6	0	—	—	—	—	0	6
	Woolwich Store Charge, 26.									
Barrows	hand ...	double	1	0	—	—	—	—	0	2
		single	0	12	—	—	—	—	0	2
		with legs	1	0	—	—	—	—	0	2
	stable		1	8	—	—	—	—	0	4
	Woolwich Store Charge, 28.									
Carts	tip, Royal Engineer		9	8	—	—	—	—	1	2
	tool, double, Royal Engineer		18	0	—	—	—	—	2	8
Wagons	air line		12	0	—	—	—	—	2	0
	cable, Telegraph		18	4	—	—	—	—	2	4
	forge, Royal Engineer		18	12	—	—	—	—	2	4
	pontoon		12	0	—	—	—	—	2	0
	timber, R.E.		6	0	—	—	—	—	1	0
Pontoons			24	0	—	—	—	—	1	0

N.B.—Paint, black ... ... 4 ozs. } For every 12 camp kettles.
Varnish, japan black ... ... 1½ pints }

* Prepared in the following proportions:—

—	Priming Coat.	Second Coat.	Finishing Coat.
	lbs. ozs.	lbs. ozs.	lbs. ozs.
Driers	18 0	16 0	18 0
Oil, linseed, raw	20 0	8 0	28 0
Paint, ground — Brown, umber, burnt	18 0	16 0	19 0
Paint, ground — Red, Venetian	2 0	2 0	2 8
Paint, ground — Lead, white	56 0	56 0	56 0
Paint, ground — Yellow, chrome, orange	6 8	5 0	7 0
Turpentine, spirits of	8 0	14 0	4 0

Ingredients for brown paint will be drawn in the proportions indicated in the Table, when greater or less quantities than those shown are required.

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TABLE B.

Time and Working Pay allowed for Scraping, Cleaning, and Painting the following Carts, Wagons, &c.

Description.	Scraping and Cleaning.		Painting.			
			Priming, or first Coat.		Stopping, and second Coat.	
	Time.	Amount.	Time.	Amount.	Time.	Amount.
	H. M.	*s. d.*	H. M.	*s. d.*	H. M.	*s. d.*
Woolwich Store Charge, 2.						
Mauls, common (*or* iron-hooped for Heads only, per dozen, one coat)	—	—	1 45	0 2½	—	—
Posts, picket, 2½ feet	0 10	0 0¼	0 15	0 0¼	0 15	0 0½
Woolwich Store Charge, 3.						
Carts, ambulance G.S.	6 0	0 6	6 0	0 9	8 0	1 0
Woolwich Store Charge, 4.						
Carts ... ... ammunition, small-arm	5 0	0 5	5 0	0 7½	8 0	1 0
chaise						
coal						
forage	6 0	0 6	6 0	0 9	9 0	1 1½
forge	5 0	0 5	5 0	0 7½	8 0	1 0
Gibraltar { large	4 0	0 4	4 0	0 6	7 0	0 10½
Gibraltar { small						
hand, common { Mark I.	3 0	0 3	3 0	0 4½	4 0	0 6
hand, common { ,, II.						
low, projectile						
Maltese						
shot	5 0	0 5	5 0	0 7½	8 0	1 0
sling...	6 0	0 6	5 0	0 7½	6 0	0 9
tip, G.S.						

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Carts	transport	spring	... ...	6	0	0	6	6	0	0	9	9	0	1	1½
		tip	... ...												
	trench		... ...	3	0	0	3	3	0	0	4½	4	0	0	6
	water		... ...	6	9	0	6	5	0	0	7½	6	0	0	9
	watering	barrel	... ...												
		box	... ...	8	30	0	8½	8	30	1	0¾	11	0	1	4½

Woolwich Store Charge, 3.

Wagons ...	ambulance	equirotal	... ...	15	0	1	3	15	0	1	10½	18	0	2	3
		Mark III, IV, and V.	... ...	13	0	1	1	13	0	1	7½	17	0	2	1½
	field hospital, store		... ...	16	0	1	4	16	0	2	0	20	30	2	6¾
	pharmacy ...	... ...	... ...	8	0	0	8	8	0	1	0	10	30	1	3¾
	surgery, spring	... ...	... ...	13	0	1	1	13	0	1	7½	17	0	2	1½

Woolwich Store Charge, 4.

Wagons ...	ammunition, small-arm (with limber)		... ...	9	0	0	9	9	0	1	1½	12	0	1	6
	bakery		... ...	13	0	1	1	13	0	1	7½	17	0	2	1½
	bread and meat ...		... ...												
	forge	equirotal	... ...	16	0	1	4	15	0	1	10½	17	0	2	1½
		lock under	... .												
	general service	equirotal	... ...	13	0	1	1	13	0	1	7½	17	0	2	1½
		(lock under)	... ...												
		Mark V, VI. and VII.	... ...												
	heavy, spring		... ...	13	0	1	1	13	0	1	7½	17	0	2	1½
	office	... ...	... ...	15	0	1	3	16	0	2	0	18	0	2	3
	siege, equirotal	... ...	... ...	13	0	1	1	13	0	1	7½	17	0	2	1½
	sling (with limber)	12 tons	... ...	12	0	1	0	10	0	1	3	14	0	1	9
		7 ,,	... ...	10	0	0	10	10	0	1	3	12	0	1	6
		6 ,,	... ...	10	0	0	10	8	0	1	0	12	0	1	6

Woolwich Store Charge, 10.

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Jacks, lifting, general service	... ...	0	30	0	0½	0	30	0	0¾	0	30	0	0¾

Woolwich Store Charge, 13.

Carriages, field, machine gun	·303 Maxim (Mark I.)	Cavalry	... ...	5	50	0	5½	6	30	0	9¾	7	30	0	11¼
		Infantry ..	... ...	3	0	0	3	3	30	0	5¼	4	0	0	6
	Nordenfelt, 3 barrel (Mark I.)	Cavalry	... ...	5	0	0	5	6	0	0	9	7	0	0	10½
	also Gardner, 2-barrel	Infantry	... ...	5	0	0	5	6	0	0	9	7	0	0	10½

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TABLE B – *continued.*

Description.	Scraping and cleaning.		Painting.			
			Priming, or first Coat.		Stopping and second Coat.	
	Time.	Amount.	Time.	Amount.	Time.	Amount.
Woolwich Store Charge, 26.	H. M.	*s. d.*	H. M.	*s. d.*	H. M.	*s. d.*
Barrows, hand { double	1 0	0 1	1 0	0 1½	1 15	0 2
Barrows, hand { single	0 45	0 0¾	0 45	0 1	1 0	0 1½
Barrows, hand { with legs	1 0	0 1	1 0	0 1½	1 15	0 2
Barrows, stable	1 0	0 1	1 0	0 1½	1 30	0 2¼
Woolwich Store Charge, 28.						
Carts { tip, Royal Engineers	6 0	0 6	5 0	0 7½	6 0	0 9
Carts { tool, double, Royal Engineers	15 0	1 3	15 0	1 10½	19 0	2 4½
Wagons { air line	9 0	0 9	9 0	1 1½	12 0	1 6
Wagons { cable, Telegraph	15 0	1 3	15 0	1 10½	18 0	2 3
Wagons { forge, Royal Engineers	16 0	1 4	15 0	1 10½	17 0	2 1½
Wagons { pontoon	6 0	0 6	6 0	0 9	7 0	0 10½
Wagons { timber, R.E.	5 0	0 5	5 0	0 7½	6 30	0 9¾
Pontoons	6 0	0 6	10 0	1 3	11 0	1 4½

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TABLE C.

Quantity of Paint allowed for Marking.

Nature of Marking.			No. of Letters, &c.	Quantity of Paint.*	Remarks.
				ozs.	
Letters or figures	Writing	$1\frac{1}{4}$-in. type	20	$1\frac{1}{4}$	1 pint of turpentine per lb. of paint will be allowed for marking purposes.
		$1\frac{1}{8}$ " "	200	1	
		1 " "	200	1	
		$\frac{7}{8}$ " "	200	$\frac{3}{4}$	
		$\frac{3}{4}$ " "	200	$\frac{5}{8}$	
		$\frac{5}{8}$ " "	200	$\frac{1}{2}$	
		$\frac{1}{2}$ " "	200	$\frac{1}{2}$	
		$\frac{3}{8}$ " "	200	$\frac{1}{4}$	
		$\frac{1}{4}$ " "	200	$\frac{1}{4}$	
	Stencilling	$1\frac{1}{4}$ " "	200	$\frac{5}{8}$	
		$1\frac{1}{8}$ " "	200	$\frac{1}{2}$	
		1 " "	200	$\frac{1}{2}$	
		$\frac{7}{8}$ " "	200	$\frac{3}{8}$	
		$\frac{3}{4}$ " "	200	$\frac{3}{8}$	
		$\frac{5}{8}$ " "	200	$\frac{1}{4}$	
		$\frac{1}{2}$ " "	200	$\frac{1}{4}$	
		$\frac{3}{8}$ " "	200	$\frac{1}{8}$	
		$\frac{1}{4}$ " "	200	$\frac{1}{8}$	
Circular spot, 1 inch in diameter			200	3	
Geneva cross		10 in. × 9 in.	10	$2\frac{1}{2}$	These quantities are for white paint, the same quantities are required for Chinese red.
		9 " × 8 "	10	$2\frac{1}{4}$	
		$7\frac{1}{2}$ " × $5\frac{3}{4}$ "	10	$1\frac{3}{4}$	
		6 " × 5 "	10	$1\frac{1}{2}$	
Lines, 1 in. × 3 in.			10	$\frac{1}{4}$	

* Less than $\frac{1}{4}$-lb. paint should not be issued.

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APPENDIX VIII.

(*Referred to in paragraph* 330.)

MATERIALS FOR REPAIR AND PRESERVATION OF ARMS.

I. Materials for Repairing Arms.

The following tables contain lists of the various parts of arms supplied to the Regular Army, at public expense, for the use of armourer-serjeants. Items required for repair of the arms of units unprovided with armourer-sergeants, will be demanded and accounted for by the officer whose armourer is detailed to perform the work. The parts of interchangeable arms are, as a rule, issued in a finished state:—

Carbines, Martini-Metford and Martini-Enfield, and Rifles, Martini-Enfield.

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TABLE 1.

Description.	Annual proportion for 1,000 Arms.* Carbines, Artillery. Martini-Metford Mark II.	Martini-Metford Mark III.	Martini-Enfield. Mark I.	Rifles. Martini-Enfield, Mark I.
Weedon Store Charge.				
Bands { lower, M.L.M. rifle, Mark II	—	—	—	1
Bands { upper, M.E. rifle, Mark I	—	—	—	1
Blocks { breech, M.M.	1	1	1	—
Blocks { ,, M.E. rifle, Mark I	—	—	—	1
Blocks { catch, lever, M.M.	1	1	1	1
Bolts, stock, M.M.	1	1	1	1
Caps, nose { A.C., M.M., Mark II	1	1	—	—
Caps, nose { M.E. { rifle, Mark I	—	—	—	1
Caps, nose { M.E. { carbine, artillery, Mark I ...	—	—	1	—
Cords, pull-through	2000	2000	2000	2000
Extractors { M.M.	1	1	1	—
Extractors { M.E. rifle, Mark I	—	—	—	1
Guards { trigger, M.M.	1	1	1	1
Guards { hand, M.E. rifle, Mark I	—	—	—	1
Gauze, wire, pieces of	2000	2000	2000	2000
Holders, rod, M.E. rifle, Mark I	—	—	—	2
Hooks, fore end, M.M.	—	2	2	2
Indicators, M.M.	10	10	10	10
Leaves, back sight { C.C., M.L.M., Mark I ...	5	5	5	—
Leaves, back sight { M.L.M. rifle, Mark II ...	—	—	—	5
Levers, breech, M.M.	1	1	1	1
Nuts { rod { C.C., M.L.M., Mark I	5	5	5	—
Nuts { rod { M.L.M. rifle, Mark II.	—	—	—	5
Nuts { screw band, upper, M.L.M. rifle	—	—	—	30
Nuts { stop, M.M.	2	2	2	2

* For other establishments a proportionate allowance will be supplied, fractional results in working out may be taken as whole numbers, and allowance is to be made for any number in possession of the corps.

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Carbines, Martini-Metford and Martini-Enfield, and Rifles, Martini-Enfield—*continued.*

TABLE I—*continued.*

Description.	Annual proportion for 1,000 Arms *			
	Carbines, Artillery.			Rifles. Martini-Enfield, Mark I.
	Martini-Metford.		Martini-Enfield.	
	Mark II.	Mark III.	Mark I.	
Pins — axis — back sight, M.L.M. rifle	5	5	5	5
Pins — axis — block, M.M.	3	3	3	3
Pins — block, catch, lever, M.M.	1	1	1	1
Pins — extractor, M.M.	1	1	1	1
Pins — stop hand — lower, M.L.M. rifle	—	—	—	1
Pins — stop hand — upper, M.E. rifle, Mark I	—	—	—	1
Pins — stud, barrel, A.C., M.M., Mark II	1	—	—	—
Rivets, spring, hand guard, M.L.M. rifle	—	—	—	10
Screws — band — lower, M.L.M. rifle, Mark II	—	—	—	5
Screws — band — upper, M.E. rifle, Mark I	—	—	—	4
Screws — bed, back sight, M.L.M. rifle	5	5	5	5
Screws — cap — back sight, M.L.M. rifle	5	5	5	5
Screws — cap — nose, M.L.M. rifle	5	5	5	—
Screws — cap — ,, M.E. rifle, Mark I	—	—	—	5
Screws — holder, rod — long, M.E. rifle	—	—	—	1
Screws — holder, rod — short ,, ,,	—	—	—	1
Screws — hook, fore-end, M.M.	—	4	4	4
Screws — keeper — indicator, M.M.	6	6	6	6
Screws — keeper — stop nut ,,	4	4	4	4
Screws — plate, butt	10	10	10	10
Screws — spring — sight, back, M.L.M. rifle	5	5	5	5
Screws — spring — trigger, M.M.	4	4	4	4
Screws — swivel, band, A.C., M.M.†	4	4	4	—
Screws — trigger, M.M.	4	4	4	4
Slides — back sight, C.C., M.L.M., Mark I	5	5	5	—
Slides — ,, M.L.M. rifle, Mark II	—	—	—	5
Springs — sight, back, M.L.M. rifle	3	3	3	3
Springs — block, catch, lever, M.M.	2	2	2	2
Springs — hand guard, upper, M.L.M. rifle, Mark II	—	—	—	2
Springs — main, M.M.	10	10	10	10
Springs — trigger, M.M.	6	6	6	6
Stocks — butt — long, M.M.	1	1	1	1
Stocks — butt — short ,,	—	—	—	1
Stocks — fore-end — A.C., M.M., Mark II	1	—	—	—
Stocks — fore-end — ,, ,, III	—	1	1	—
Stocks — fore-end — M.E. rifle, Mark I	—	—	—	1
Stops, stud, barrel, A.C., M.M., Mark II	1	—	—	—
Strikers, M.M.	15	15	15	15
Studs, barrel, A.C., M.M., Mark II	1	—	—	—
Swivels — band — M.M., A.C.‡	5	5	5	—
Swivels — band — M.L.M. rifle, Mark II‡	—	—	—	5
Swivels — butt, M.L.M. rifle	5	5	5	5
Swivels — piling, M.L.M. rifle, Mark II	—	—	—	20
Triggers — M.M.	3	3	3	—
Triggers — M.E. rifle	—	—	—	3
Tumblers, M.M.	3	3	3	3
Washers, bolt, stock, M.L.M. rifle	2	2	2	2

* For other establishments a proportionate allowance will be supplied, fractional results in working out may be taken as whole numbers, and allowance is to be made for any number in possession of the corps.

† Same as screw, swivel, piling, M.L M. rifle, Mark II.

‡ Band combined with nose cap.

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Carbines and Rifles, Magazine Lee-Metford and Magazine Lee-Enfield.

TABLE 2.

Articles.	Annual proportion per 1 000 Arms.§					
	Carbines, Cavalry.		Rifles.			
	M.L.M. Mark I.	M.L.E. Mark I.	M.L.M. Mark I.*	M.L.M. Mark II.	M.L.M. Mark II.*	M.L.E. Mark I.
Weedon Store Charge.						
Bands — lower, M.L.M. — rifle — Mark I*	—	—	3	—	—	—
rifle — ,, II	—	—	—	3	3	3
carbine	3	3	—	—	—	—
upper, M.L.M., Mark I*	—	—	3	—	—	—
Barleycorns, front sight, M.L.M rifle, Mark I*	—	—	30	—	—	—
Bends, pointer, dial, sight, M.L.M. rifle — Mark I*	—	—	5	—	—	—
,, II	—	—	—	5	5	5
Bolts, M.L.M. — rifle — breech — Mark I*	—	—	25	—	—	—
,, II	—	—	—	15	—	—
,, II*	—	—	—	—	15	15
carbine	15	15	—	—	—	—
stock	1	1	1	1	1	1
Bottles, oil, M.L.M. — stoppers	5	5	5	5	5	5
washers	10	10	10	10	10	10
Caps, nose — M.L.M. — rifle — Mark I*†	—	—	1	—	—	—
,, II†	—	—	—	1	1	—
carbine†	1	—	—	—	—	—
M.L.E. — rifle†	—	—	—	—	—	1
carbine†	—	1	—	—	—	—
Cases, magazine, M.L.M. — rifle — Mark I*	—	—	5	—	—	—
,, II	—	—	—	5	5	5
carbine	5	5	—	—	—	—
Catches, M.L.M. — magazine, rifle — Mark I*	—	—	5	—	—	—
,, II	5	5	—	5	5	5
safety, carbine	10	10	—	—	10	10
Cocking-pieces, M.L.M. — rifle — Mark I*	—	—	30	—	—	—
,, II	—	—	—	30	—	—
carbine	30	30	—	—	30	30
Collars, screw, front, trigger guard M.L.M.	1	1	1	1	1	1
Cords, pull-through	2,000	2,000	2,000	2,000	2,000	2,000
Covers, M.L.M. — bolt, breech, rifle — Mark I*	—	—	5	—	—	—
,, II	10	10	—	10	10	10
back-sight, carbine	6	6	—	—	—	—
Cut-offs, M.L.M. rifle — Mark I*	—	—	5	—	—	—
,, II	5	5	—	5	5	5
Extractors, M.L.M. rifle — Mark I*	—	—	20	—	—	—
,, II	20	20	—	20	20	20
Guards — hand, M.L.M. — rifle — Mark I*	—	—	80	—	—	—
,, II	—	—	—	40	40	40
carbine	20	20	—	—	—	—
trigger, M.L.M. — rifle — Mark I*	—	—	1	—	—	—
,, II	—	—	—	1	1	1
carbine	1	1	—	—	—	—
Gauze, wire, pieces of	2,000	2,000	2,000	2,000	2,000	2,000
Heads, bolt, breech, M.L.M. rifle — Mark I*	—	—	20	—	—	—
,, II	10	10	—	10	10	10
Leaves, back-sight — M.L.M. — rifle — Mark I*	—	—	5	—	—	—
,, II	—	—	—	5	5	5
carbine	5	—	—	—	—	—
M.L.E. carbine	—	5	—	—	—	—

† Combined with upper band.

§ For other establishments a proportionate allowance will be supplied, fractional results in working out may be taken as whole numbers, and allowance is to be made for any number in possession of the corps.

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Carbines and Rifles, Magazine Lee-Metford and Magazine Lee-Enfield—*continued.*

TABLE 2—*continued.*

Articles.	Annual proportion per 1,000 Arms §					
	Carbines, Cavalry.		Rifles.			
	M.L.M. Mark I.	M.L.E. Mark I.	M.L.M. Mark I.*	M.L.M. Mark II.	M.L.M. Mark II.*	M.L.E. Mark I.
Links, magazine, M.L.M. rifle Mark I*	—	—	5	—	—	—
rifle ,, II	—	—	—	5	5	5
carbine	5	5	—	—	—	—
Nuts, M.L.M. rod rifle, Mark II	—	—	—	5	5	5
rod carbine	5	5	—	—	—	—
screw, band, upper	—	—	40	—	—	—
Pins, M.L.M. axis back sight	5	5	5	5	5	5
axis trap, butt-plate	10	10	10	10	10	10
barleycorn, front sight	—	—	20	—	—	—
catch magazine	10	10	10	10	10	10
catch safety, carbine	10	10	—	—	10	10
cover, head, breech-bolt	—	—	10	—	—	—
spring platform, magazine	5	5	—	5	5	5
stop, band lower	—	—	1	1	1	1
stop, band upper	—	—	1	—	—	—
trigger	5	5	5	5	5	5
Pivots, sight, aperture, M.L.M. rifle	—	—	1†	—	—	—
Plates, butt, M.L.M. rifle Mark I*	—	—	2	—	—	—
rifle ,, II	—	—	—	2	2	2
carbine	2	2	—	—	—	—
Platforms, magazine, M.L.M. rifle Mark I*	—	—	25	—	—	—
rifle ,, II	5	5	—	5	5	5
Pointers, dial, sight, M.L.M. rifle Mark I*	—	—	10	—	—	—
rifle ,, II	—	—	—	10	10	10
Rivets, M.L.M. fore-end	2	2	2	2	2	2
spring hand-guard rifle	—	—	10	10	10	10
Screws, M.L.M. band lower, rifle Mark I*	—	—	5	—	—	—
band lower, rifle ,, II	5	5	—	5	5	5
band upper, ,, ,, I*	—	—	5	—	—	—
bed, back sight	5	5	5	5	5	5
cap back sight	5	5	5	5	5	5
cap nose rifle	—	—	5	5	5	5
cap nose carbine	5	5	—	—	—	—
cover breech-bolt	—	—	100	—	—	—
cover back sight long	3	3	—	—	—	—
cover back sight short	3	3	—	—	—	—
cut off	10	10	10	10	10	10
ejector	15	15	15	15	15	15
extractor	20	20	20	20	20	20
guard, trigger back	25	25	25	25	25	25
guard, trigger front	5	5	5	5	5	5
head, breech, bolt, rifle, Mark I*	—	—	200	—	—	—
keeper, striker rifle, Mark I*	—	—	20	20	—	—
keeper, striker carbine	30	30	—	—	30	30
plate, butt (iron)	4	4	4	4	4	4
scar	10	10	10	10	10	10
sight aperture, rifle	—	—	10‡	10	10	10
sight dial, rifle fixing	—	—	5	5	5	5
sight dial, rifle pivot	—	—	10	10	10	10
spring cut off, rifle, Mark I*	—	—	10	—	—	—
spring sight aperture, rifle	—	—	20	20	20	20
spring sight back	5	5	5	5	5	5
strap, butt-plate (iron)	—	—	—	2	2	2

§ For other establishments a proportionate allowance will be supplied, fractional results in working out may be taken as whole numbers, and allowance is to be made for any number in possession of the corps.

† For rifles of early manufacture that have pivots.

‡ For rifles of later manufacture that have screws.

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Carbines and Rifles, Magazine Lee-Metford and Magazine Lee-Enfield—*continued.*

TABLE 2—*continued.*

Articles.	Annual proportion per 1,000 Arms.§					
	Carbines, Cavalry.		Rifles.			
	M.L.M. Mark I.	M.L.E. Mark I.	M.L.M. Mark I.*	M.L.M. Mark II.	M.L.M. Mark II.*	M.L.E. Mark I.
Screws, M.L.M. spring-trap, butt-plate	5	5	5	5	5	5
swivel: piling rifle	—	—	5	5	5	5
swivel: trigger guard, rifle, Mark I*	—	—	5	—	—	—
Sears, M.L.M. Mark I*	—	—	15	—	—	—
Sears, M.L.M. ,, II	15	15	—	15	15	15
Sights, aperture, M.L.M. rifle	—	—	5	5	5	5
Slides, M.L.M., back sight: rifle Mark I*	—	—	5	—	—	—
Slides, M.L.M., back sight: rifle ,, II	—	—	—	5	5	5
Slides, M.L.M., back sight: carbine	5	5	—	—	—	—
Springs, M.L.M. cut off, rifle, Mark I*	—	—	5	—	—	—
extractor	40	40	40	40	40	40
guard, hand, rifle: lower Mark I*	—	—	2	—	—	—
guard, hand, rifle: lower ,, II	—	—	—	2	2	2
guard, hand, rifle: upper ,, I*	—	—	2	—	—	—
guard, hand, rifle: upper ,, II	—	—	—	2	2	2
link, magazine, rifle, Mark I*	—	—	200	—	—	—
main	150	150	150	150	150	150
platform, magazine: rifle Mark I*	—	—	75	—	—	—
platform, magazine: rifle ,, II	—	—	—	25	25	25
platform, magazine: carbine	25	25	—	—	—	—
pin, catch, safety, carbine	10	10	—	—	10	10
retaining: breech bolt	5	5	5	5	5	5
retaining: band	5	5	—	—	—	—
sear	15	15	15	15	15	15
sight: aperture, rifle	—	—	15	15	15	15
sight: back	3	3	3	3	3	3
sight: dial, rifle	—	—	2	2	2	2
trap, butt plate	10	10	10	10	10	10
Stocks butt: rifle Mark I*	—	—	5	—	—	—
butt: rifle ,, II	—	—	—	5	5	5
butt: carbine	5	5	—	—	—	—
fore-end: rifle Mark I*	—	—	5	—	—	—
fore-end: rifle ,, II	—	—	—	5	5	5
fore-end: carbine	5	5	—	—	—	—
Strikers, M.L.M. rifle, Mark I*	—	—	30	30	—	—
Strikers, M.L.M. carbine	30	30	—	—	30	30
Swivels, M.L.M. band, rifle Mark I*	—	—	5	—	—	—
band, rifle ,, II	—	—	—	5	5	5
butt	—	—	5‡‡	5	5	5
guard, trigger, rifle, Mark I*	—	—	5	—	—	—
piling, rifle Mark I*	—	—	30	—	—	—
piling, rifle ,, II	—	—	—	30	30	30
Traps, M.L.M., butt-plate, rifle Mark I*	—	—	3	—	—	—
Traps, M.L.M., butt-plate, rifle ,, II	3	3	—	3	3	3
Triggers, M.L.M. rifle Mark I*	—	—	3	—	—	—
Triggers, M.L.M. rifle ,, II	3	3	—	3	3	3
Wads, bolt, stock, M.L.M.	30	30	30	30	30	30
Washers, M.L.M. bolt, stock	2	2	2	2	2	2
Washers, M.L.M. guard, hand, or rivet, fore-end	5	5	20	20	20	20
Washers, M.L.M. screw, fixing, dial sight, rifle	—	—	3	3	3	3

§ For other establishments a proportionate allowance will be supplied, fractional results in working out may be taken as whole numbers, and allowance is to be made for any number in possession of the corps.

‡‡ For rifle regiments and mounted infantry only.

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Bayonets for M.E. Rifles.

38407
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1722

TABLE 3.

Description.	Annual proportion for 1,000 arms.* Rifles, M.E., Mark I.
Weedon Store Charge.	
Bayonets. Martini-Enfield — rings, locking	1
Martini-Enfield — screws	3
Scabbards. bayonet — lockets, Martini-Enfield	1
rivets — screwed	700
rivets — split	320
rivets — T headed	120
springs — long, Martini-Enfield, Mark II	15
springs — short, Martini-Enfield	10
tips, Martini-Enfield, long	10
washers, brass	180
M.E. leathers	5

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Devonport
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* For other establishments a proportionate allowance will be supplied, fractional results in working out may be taken as whole numbers, and allowance is to be made for any number in possession of the corps.

SWORD-BAYONETS AND SCABBARDS, PATTERN 1888.

TABLE 4.

Articles.	Annual proportion per 1,000 arms.§	Remarks.
Weedon Store Charge.		
Sword-bayonets — bolts	15	
grips — pairs	5	
nuts, bolt	25	
rivets, grip — large	10	For sword-bayonets of early manufacture that have 2 small rivets and 1 large.
rivets, grip — small	10	
springs, bolt, spiral	15	
washers, rivet, grip — large	20	For sword-bayonets of early manufacture that have 2 small rivets and 1 large.
washers, rivet, grip — small	20	
Scabbards — laces, iron	50	
leathers, finished	10	
lockets	3	
tips	5	

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Devonport
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§ For other establishments a proportionate allowance will be supplied, fractional results in working out may be taken as whole numbers, and allowance is to made for any number in possession of the corps

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Webley Pistols.

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Equipt.
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TABLE 5.

Description of Components.	Percentage allowed on the No. of Pistols on charge. (Pistol, Webley.) Mark I.	Mark I*.	Mark II.	Remarks.
Catches { barrel	5	5	5	
Catches { hammer	5	5	5	
Cups, countersink, for screw stock	5	5	5	
Hammers { Mark I	5	5	—	
Hammers { ,, II	—	—	5§	
Levers, extractor, with spring and pin	10	10	10	
Nuts, screw, stock	5	5	5	
Pawls	10 *a*	10 *b*	10 *b*	
Pins { joint, axis	10	10	10	
Pins { spring, extractor lever, Mark I	10	10	10	
Pins { auxiliary, lever extractor, Mark II	10	10	10	
Pins { swivel, butt	10	10	10	
Pins { stock, sides	10	10	10	
Shields	—	5	5	
Screws { axis, cylinder	5	5	5	
Screws { catch { barrel	10	10	10	
Screws { catch { hammer	5	5	5	
Screws { guard, trigger	5	5	5	
Screws { hammer or trigger	5	5	5	
Screws { pin, joint, axis	10	10	10	
Screws { spindle	5	5	5	
Screws { spring, stop, trigger	5	5	5	
Screws { stock, sides	5	5	5	
Screws { shield, Mark II	—	10	10	
Screws { swivel, hammer	5	5	5	
Springs, catch { barrel	10	10	10	
Springs, catch { hammer { Mark I	10	10	—	
Springs, catch { hammer { ,, II	—	—	5	
Springs { extractor, lever, Mark I	10	10	—	
Springs { ,, ,, auxiliary, Mark II	—	—	5	
Springs { main	15	15	15	
Springs { ,, auxiliary	5	5	5	
Springs { spiral, spindle extractor	15	15	15	
Springs { stop, trigger	15	15	15	
Stop, trigger	5	5	5	
Swivels { butt (with ring)	5	5	5	
Swivels { hammer	5	5	5	
Triggers	5	5	5§	

Except for an establishment of three pistols or less, the proportion (less any numbers in possession) may be drawn annually.

For an establishment of three pistols or less, it will only be drawn triennially.

Fractional results may be reckoned as whole numbers.

a Mark I or II. *b* Mark II.

§ These components can be made to interchange in the Mark I by a slight alteration in the body.

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Cavalry Swords and Scabbards.

TABLE 6. Description.	No. per cent. allowed annually.	Remarks.
Weedon Store Charge.		
Swords, grips, cavalry, pattern 1890 (also for pattern 1882 and 1885)	2	N.B.—Any remaining from previous supplies to be allowed for.
Scabbards, sword: linings, cavalry, pattern 1885, Mark I. or Mark II.†	5	†*The pattern of these items for the Mark I. scabbard differs from that for the Mark II., so that Mark I or Mark II. should be specially demanded according to the pattern of scabbard in possession.*
Scabbards, sword: loops, cavalry, pattern 1885 (*for either Mark I. or II.*) back	5	
Scabbards, sword: loops, cavalry, pattern 1885 (*for either Mark I. or II.*) front	5	
Scabbards, sword: mouthpieces, cavalry, pattern 1885, Mark I. or Mark II.†	2	
Scabbards, sword: screws, mouthpiece, cavalry, pattern 1885 (*for either Mark I. or II.*) ...	10	
Scabbards, sword: tips, shoe, cavalry (*for either Mark I. or II.*)	10	
Wire, armourers, iron, lbs.: No. 9 W.G. soft (*for rivets for grips*)	½	
Wire, armourers, iron, lbs.: No. 12 W.G. soft (*for rivets for loops*)	¼	

Lances.

TABLE 7. Description.	No. per cent.
Weedon Store Charge.	
Laces for flags	15
Protectors, leather, for stave of lance ...	30
Slings	5
Tacks, copper, ½-inch... ... ... lb.	½
Thongs	10

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Cavalry
104

Tubes, Aiming.

TABLE 8. Description.	Annual supply for: 10 tubes or less.	Annual supply for: From 10 to 20 tubes.	Remarks.
Weedon Store Charge.			
Components.			
Tubes, aiming: breechpieces, Martini-Henry (carbine and rifle)*	1	1	N.B.—Any remaining from previous supplies to be allowed for.
Tubes, aiming: screws, breechpiece, Martini-Henry (carbine and rifle)* ...	2	5	
Tubes, aiming: set nuts, Magazine-Lee-Metford rifle†	...	1	**For Martini-Henry tubes only.*
Tubes, aiming: washers, Magazine-Lee-Metford rifle: gunmetal†	...	1	
Tubes, aiming: washers, Magazine-Lee-Metford rifle: leather† ...	2	5	†*For Magazine-Lee-Metford tubes only.*
Appurtenances.			
brushes, cleaning (carbine and rifle)§	1 per 2 tubes	1 per 2 tubes	§*For Martini-Henry and Magazine-Lee-Metford tubes.*
rods, cleaning: carbine*... ...	1	1	
rods, cleaning: rifle§	1	1	

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II. Materials for Browning Arms.

A biennial supply for rifles and carbines, in accordance with paragraph 330.

TABLE 9. Description.	Quantity. 800 arms	600 arms.	500 arms.	Remarks.
Weedon Store Charge.				
Brushes, hard, armourers	3	2	2	
Woolwich Store Charge, 3.				
Flannel, white ... ... yds.	...	...	...	1 for every 2000 stand of arms.
Woolwich Store Charge, 7.				
Card, scratch ... ... yds.	3	2	1¾	
Cloth, emery ... fine ... ... quires	4	3	2¼	
Cloth, emery ... middling ... ,,	2	1½	1¼	
Dust, bone ... ... lbs.	5	4	3½	
Woolwich Store Charge, 8.				
Paper, glass ... fine, No. 1½ quires	2	1½	1¼	
Paper, glass ... coarse ... ... ,,	2	1½	1¼	
Powder, emery, flour ... ... ozs.	16	12	10	
Woolwich Store Charge, 9.				
Spelter, brass ... ... ozs.	8	6	5	
Tin, grain ... ... lbs.	1	1	1/16	For soldering.
Woolwich Store Charge, 11.				
Borax, refined ... ... ozs.	8	6	5	
38407 **Glue,** best town made ... ... lbs.	4	3	2½	
Equipt. **Oil** *	...	...	...	
1681 **Resin,** black ... ... ozs.	8	6	5	
Sal-ammoniac, in lumps ... ... ,,	2	1¾	1 7/16	
Soda, crystal † ... ... lbs.	144	108	90	For cleaning barrels.
Miscellaneous Stores.				
Mixture, browning‡	...	...	...	
54 **Sheeting,** old ... ... lbs.	24	20	16½	

Gen. No. 6452 * The following quantities of oil will be issued for the cleaning, oiling, and preservation of small arms, including pistols, at home stations and in the Dominion of Canada:—

Rifle Oil.

Horse and Field Batteries, Royal Artillery, 5 pints annually.

Regimental Districts.—For every 100 stand of arms in constant use, 6 gallons annually.

Other Services.—For every 100 stand of arms, 6 gallons annually.

Rifle Oil and Mineral Jelly.

At stations abroad, except in the Dominion of Canada, a mixture of oil and mineral jelly will be issued in the following proportions:—

54 Gen. No. 6989 Horse and Field Batteries, Royal Artillery, 6¼ pints for each battery per annum.

Other Services.—6 gallons 1 quart for every 100 stand of arms per annum at Gibraltar, Malta, Egypt, and South Africa; and 7 gallons at Straits Settlements, Mauritius, Ceylon, Hong Kong, Bermuda, Barbados, Jamaica, and West Coast of Africa.

The above allowance of rifle oil, and rifle oil and mineral jelly will include the quantities required for browning, and also for filling the oil bottles.

Rangoon Oil.

A.O. 9, 1897. 1 gallon of Rangoon oil per 100 rifles or carbines per annum will be allowed for lubricating the actions, for which purpose rifle oil is on no account to be used.

No oil, except that supplied by the Army Ordnance Department, will be applied to the arms under any circumstances.

Composition Preserving Arms.

57 Mauritius 3550 In the West Indies, West Coast of Africa, Mauritius, Ceylon, and Singapore, arms will be greased once a month, with "Composition, preserving arms," between fore-end and barrel. For this service 12 gallons of mixture for every 500 arms per annum will be allowed. At Hong Kong the arms will only be greased in this way twice a year, and 2 gallons of mixture only supplied for 500 stand of arms. At other stations the arms will be greased once a year only, and 1 quart of the mixture for every 100 stand of arms will be allowed.

† 1½ lbs. to each gallon of water. The quantities shown are the maximum allowance, but no more should be used than is actually required to remove the grease.

‡ Browning mixture is supplied in the proportions described in Instructions for the care, repair, and browning, &c., of Arms and Bayonet Scabbards, in the Instructions for Armourers. Charcoal and coal are supplied as laid down in the Allowance Regulations.

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III. Materials for Cleaning Arms.

An annual supply for rifles and carbines in accordance with paragraph 330.

Oil (see allowance given in Table 9, foot-note *).	
Sheeting, old, 1½ oz.	For each Webley pistol.
Flannelette, 18-inches	For each Lee-Metford magazine rifle and Martini-Metford carbine.

In addition to the above, 10 lbs. of old sheeting will be allowed for the use of the armourer.§

In the case of the Royal Artillery, when arms are examined by the armourer serjeant, he should be provided with $\frac{1}{10}$th of a pint for every 18 stand (or less) of arms, out of the annual allowance of oil.

APPENDIX VIIIA.

(*Referred to in paragraph* 142K.)

INSTRUCTIONS RELATING TO HARNESS AND SADDLERY STORED FOR REGISTERED HORSES, ON MOBILIZATION.

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1. The proportions of sizes, &c., of various articles of harness and saddlery for use with registered horses on mobilization are detailed in the following tables, with instructional notes :—

Extending Pieces, &c.

(§ 7166, *List of Changes.*)

Description.	For universal saddles.	For artillery draught (horse and field batteries only).	For ammunition columns and parks, also transport draught.
	Per cent.	Per cent.	Per cent.
Bits, snaffle, van	...	...	20*
Breeching, Army Service Corps pattern—			
Straps, extending	...	...	40
Girth, luggage—			
Pieces, extending (for all sizes of girths)	10	20	40
Surcingle, leather, harness—			
Straps, extending	10	20	40
Straps, hame, 30-inch	...	20	40*

* In lieu of similar numbers of reversible bits and 22-itch straps, respectively. With the snaffle van bits, the reversible bridle-head and pattern 1884 bridoon reins are necessary.

The above percentages of these articles have been included in the mobilization tables.

Bit, Snaffle.

2. The snaffle bit is a strong double-ring pattern with twisted mouthpiece. It will be used with horses in transport not accus-

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tomed to work in portmouth bits, or that require a larger mouthpiece than the 5½-inch, No. 2 (largest size) portmouth reversible bit.

Breeching, Army Service Corps.—Strap, Extending.

3. The strap is 1½ inches in width and 13¾ inches in length, and fitted with a 1½-inch buckle to take the breeching strap.

These straps will be required with the Army Service Corps new-pattern breechings when used on heavy van horses, as the breeching straps will be found too short to permit of their being bent back and buckled after passing through the squares in the leather parts of the traces.

Two straps will be required with each breeching, one on each side, if any extension of breeching is necessary, to allow the seat of breeching and the hip straps to work evenly.

NOTE.—The extending straps are not intended to take the place of the short breeching straps mentioned in *List of Changes*, § 7096.

Girth.—Piece, Extending.

4. The extending piece for luggage girth is 12 inches in length, fitted with two 1-inch buckles, and split into two 1-inch straps to buckle into the girth. It will suit any of the girths mentioned in the following table of girths.

The extending pieces will be found unnecessary in some cases after a few days' wear. *See* page 137, with reference to stretching of leather.

Girths.

(§ 7136, *List of Changes.*)

5. Percentage of sizes.

Pattern and size.	Universal saddlery.				Harness.	
	Cavalry.		Mounted infantry.	Royal Artillery, Royal Engineers, and Army Service Corps.	Artillery.	Royal Engineers, Army Service Corps, transport and ammunition columns and parks.
	Light	Heavy.				
Small (30-inch) ...	...	...	100	...	...	...
Medium (34 inch)	100	80	...	70	60	30
Large (38-inch) ...	...	20	...	30	40	70
Luggage (48-inch)* ...	...	...	...	...	...	...
	100	100	100	100	100	100

* All luggage saddles.

No girths having 1¼-inch buckles are to be held in mobilization stores.

Surcingle.—Strap, Extending.

6. The strap for extending surcingle is 13 inches in length, fitted at one end with a buckle, and suitably punched at the other end.

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The service surcingle is issued in one length for all services. The strap is set back on the body 5 inches to allow it to be lengthened regimentally by re-sewing the strap nearer the point, when necessary. But as this cannot be done on mobilization, extending straps are provided.

Strap, Hame, 30-inch.

7. The ordinary hame-strap is 22 inches in length. Some civilian pattern collars will require a hame-strap longer than 22 inches, on account of the width between the forewale at the upper part. For such collars the 30-inch hame-strap will be necessary.

Bits, Portmouth.

8. Percentages of sizes.

Pattern and size.	Saddlery.					Harness.	
	Officers.	Cavalry. Light.	Cavalry. Heavy.	Mounted infantry.	Royal Artillery, Royal Engineers, and Army Service Corps.	Artillery.	Royal Engineers, Army Service Corps, transport, and ammunition columns and parks.
Cavalry, Mark II. { medium	...	70*	50*	...	...	...	...
Cavalry, Mark II. { large	...	30*	50*	...	...	...	...
‡Reversible— No. 1 size ..	100	...	...	100†	50*	20	...
‡Reversible— No. 2 size ...	...	...	...	...	50*	80	100
	100	100	100	100	100	100	100

* These will not be placed in mobilization stores for use with saddlery until the store of bits, portmouth, saddlery, is exhausted. One size only of the latter pattern is kept.

† Also 5 per cent. of "Bits, bridoon, pattern 1884," with chains of five links.

‡ New pattern Army Service Corps and Royal Artillery pole draught sets of harness only are to have this pattern of bit for the present. The portmouth bit is to be used in lieu for other draught services until existing stock is exhausted. 57/Chatham/4273.

Collars, Head.

9. Percentages of sizes.

Pattern and size.	Universal saddlery.				Harness.	
	Cavalry. Light.	Cavalry. Heavy.	Mounted infantry.	Royal Artillery, Royal Engineers, and Army Service Corps.	Artillery.	Royal Engineers, Army Service Corps, and transport.
Cavalry { small	80	20	100	...	...	...
Cavalry { large	20	80	...	...	...	...
Royal Artillery pattern ...	...	...	...	100	100	...
Army Service Corps pattern	...	...	...	...	...	100
	100	100	100	100	100	100

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Cruppers and Dock-pieces.

10. Only 6 per cent. of the Army Service Corps pattern harness cruppers are to have dock-pieces.

Dock-pieces of General Service cruppers, when issued, need not be used, but turned up.

Leathers, Stirrup.

11. Percentages of sizes.

Sizes.	Universal saddlery.				Harness.
	Cavalry.		Mounted infantry.	Royal Artillery, Royal Engineers, and Army Service Corps.	Drivers'.
	Light.	Heavy.			
Short	80	50	100	50	100
Long	20	50	...	50	...
	100	100	100	100	100

Neck-collars and Hames.

12. The registered horses will bring their own neck-collars, for use if a service collar cannot be fitted suitably for immediate work.

Tables of percentages of service collars are given in the Equipment Regulations.

The sizes of service hames differ by inches from 22 to 25 inches.

The service neck collars differ in sizes by half inches, and vary from 20 to 25½ inches.

Service hames of suitable sizes and of the patterns described in §§ 7883 and 7884, *List of Changes*, *i.e.*, the General Service, Mark III., the Pole-Draught, and the Army Service Corps patterns, with detachable hame-chains, will fit any civilian pattern, or service collar.

The size of hame need not necessarily correspond with the size of collar. Each service hame will generally fit a collar two sizes below or above its own marked size, civilian pattern pipe-collars excepted.

A pipe-collar is closed at the top, and is V-shaped at the throat, The shape of the throat necessitates a full-sized hame being used. so as to place the draught-arm sufficiently high.

Pads, Collar, Zinc.

13. Percentages of sizes.

Pattern and size.	For neck collars.		Remarks.
	Up to 21½ inches.	22 inches and upwards.	
Mark II. small	100	...	A 23-inch collar narrow at the top will take a small size pad.
Mark II. large	...	100	

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Pannels, Hair, for Luggage Saddles.

14. Hair pannels flatten after a few days' wear, and in consequence the girths will then be worn two or three holes shorter than originally fitted.

The saddle blanket must not be carried under the saddle with hair pannels, as it will raise the saddle too high off the animal's back, and cause the girth and surcingle to be too short. It will be carried in the vehicle, when pannels are in use.

Saddles.

Percentages of sizes.

15.

	Universal. Sizes.				Total.	Harness.			
						Drivers'.		Luggage.	
	0	1	2	3		Large.	Small. *	Large.	Small. †
Cavalry { light	...	40	50	10	100	...	...	...	...
Cavalry { heavy	...	25	50	25	100	...	...	...	...
Mounted Infantry	100‡	...	...	...	100	...	...	...	...
Royal Horse Artillery	...	20	50	30	100	100	...	100	...
Field Artillery, Royal Engineers, Army Service Corps, and Regimental Transport	...	10	50	40	100	100	...	100	...

* For cobs only, 100 per cent.
† For machine-gun Infantry and mule harness only, 100 per cent.
‡ Only when horsed with animals under 15 hands (cobs).

Stretching of Leather.

16. It should be noted that all new leather subject to strain elongates from ½ an inch to 1 inch in 12 inches, according to width and substance, and whether it is subject to strain when wet from sweat or rain.

Bit-heads, throat-lashes, breast-plates, girths, and surcingles will stretch to the maximum.

Punching Straps.

17. In punching straps the correct size of punch should, whenever possible, be used, so that holes similar to those already in the straps may be made.

Where it can be done without spoiling the appearance of the strap by punching too near the point, a spare hole or more should be punched above or below that in use.

Ropes, Head.

18. These are to be held as camp equipage only, on active field service; and, on mobilization, omitted from the sets of harness and saddlery.

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Ropes, Heel.

19. The usual proportion is one per horse; but, for active field service, 15 per cent. in addition will be stored for unruly horses, for which two each are to be used. Horses requiring two ropes will carry them on the march.

Rings, Clip.

20. When hames are not fitted with terret-rings for long-rein driving, clip rings—to be closed on the top eye of the hames—are to be used for that purpose, and will be stored accordingly with the sets of harness for mobilization, at the rate of four rings per set of long reins.

Straps, Back.

21. When back-pads are not stored in the sets of harness, two backstraps per set of long reins are to be used in long-rein driving, and stored accordingly.

APPENDIX IX.

(*Referred to in paragraph* 368.)

INSTRUCTIONS FOR THE CARE AND PRESERVATION OF THE LEATHER OF HARNESS AND SADDLERY (OTHER THAN THAT HELD FOR MOBILIZATION) IN POSSESSION OF TROOPS.

54 Art. 3805

Instructions.

1. With a view to assist commanding officers in the preservation of the leather of harness and saddlery in their charge, the following instructions have been prepared and should be observed:—

Dubbing to be used.

2. Once in every six months the saddlery and harness in possession of the troops will be laid by in dubbing for two or three days.

Time for applying dubbing.

3. From Friday afternoon until Monday afternoon is a suitable time, if the Saturday intervening be made a saddlery and harness inspection day, so that the officer immediately responsible may see that the orders are strictly carried out.

Proper application of dubbing.

4. In order that the dubbing may be properly applied, the whole of the strapping composing the saddlery and harness should be taken to pieces; and after the articles have been cleaned, and while they are damp from the use of a wet sponge, the dubbing should be lightly rubbed in. It may be applied with a rag, sponge, or brush. Dubbing spreads more uniformly, and is incorporated more thoroughly with the fibres of the leather, if applied when the leather is damped. In the winter months the dubbing might be used warm.

§ This allowance is common to the Martini-Enfield, the Magazine Lee-Metford rifles, and the Martini-Metford arms.

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Tallow to be rubbed off.

5. When the dubbing has had time to penetrate the leather, which will be in two or three days, the residue of tallow which will then be found on the surface should be rubbed off, and the article polished up with a cloth or brush. If this is properly done, and only a sufficiency of dubbing has been used, the leather will not soil the hand or glove when handled.

Articles requiring exceptional treatment.

6. Carbine buckets, and seats and flaps of saddles, being of uncurried leather and requiring to be kept stiff, should only be very lightly dubbed *annually*, but occasional soap sponging is necessary to preserve the grain.

Daily use of soap.

7. Soap should be used daily, where articles are in constant use, to produce mellowness in the leather rather, than an outward gloss. Officers when inspecting, should handle the straps to ascertain that they are pliable, and in good preservation.

Leather to be kept soft.

8. So long as leather remains dry and clean it needs but little attention, beyond receiving a little grease half-yearly; but when wetted, either by rain or by the water necessary to clean it, the leather becomes hard and stiff, if not softened with some oily matter.

Soda not to be used.

9. Leather must not be washed with soda nor soaked in water. Its vitality is quite destroyed by being soaked in hot water, and it will be found afterwards to readily crack when bent. Washing the leather with soap and *luke-warm* water, quickly, and without soaking, will not injure it if the precaution is taken to apply oil, dubbing, or good soap, while the article is slightly damp.

Not to be dried by the fire.

10. Drying the leather by the fire destroys its durable properties, and should be strictly forbidden.

Action of ammonia.

11. Leather articles exposed to the action of ammonia, which is continually given off in stables, become weak and rotten sooner than those not so exposed. But the grease of oil, soap, or dubbing, applied from time to time, penetrates the leather, nourishes it, and fits it to resist the deleterious effects of ammonia, and of atmospheric moisture; it also fills up the fibres, makes the leather more mellow, and increases its tensile strength.

Soft soap to be sparingly used.

12. Soft soap contains an excess of alkali, and should only be sparingly used; if applied too freely it gives the leather a dark and sodden appearance.

Use of bees-wax, &c.

13. Bees-wax and saddle soaps, commonly used in the service to give a polish to the grain of the leather, are not objectionable, providing good yellow soap is used to the flesh (under) side to keep the leather mellow.

Black saddlery.

14. Black saddlery leather requires greater care than brown. The best blacking only should be used, to give it a good appearance.

Monthly inspection.

15. The saddlery harness of sick and young horses, when kept in store, should be properly cleaned, and soaped, or dubbed, before being stored. The officer immediately responsible should inspect them monthly.

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APPENDIX X.

(Referred to in Section XVI, Sub-section II.)

INSTRUCTIONS FOR MARKING VEHICLES.

CONTENTS.

	PARAS.
Object of instructions	1
System of marking to be uniform	2
Position of "corps marks"	2, 6
Position of other marks	3
Method of marking	5
Details of corps marks	6
Details of additional marks..	3
Abbreviations to be used	6
Distribution of vehicles	7

Tables I. to VI.

Object. 1. These instructions are issued with the object that when required for use on mobilization, every vehicle shall be marked so as to show the title of the unit to which it belongs, the brigade, division, or other formation to which the unit is allotted, and the service for which each vehicle is intended.

Corps marks, position of. 2. These marks, called "corps marks," are to be on the same system for all vehicles, and for all branches of the service.

As a general rule, to be followed in every case so far as the construction of the particular vehicle will admit, corps marks will be on the body of the vehicle, on the *off side*, as far to the front as possible, and low enough to be clear of any tarpaulin or other cover.

54 Art. 5571 In the case of gun carriages, and other vehicles with limbers, the marking will be on the centre of the back of the ammunition boxes.

Machine-gun carriages will be marked as follows :—

Carriages, field, machine gun,	infantry,	Nordenfelt, 3 barrel (Mark I), (also Gardner, 2 barrel),	off side of iron cover.
		Maxim, Mark I, ·303 and ·45-inch guns	front plate.
	cavalry or mounted infantry,	Nordenfelt, 3 barrel (Mark I), (also Gardner, 2 barrel),	off side of framework carrying ammunition.
		Maxim, Mark I., ·303 and ·45-inch guns,	

Other marks not to be mixed up with. 3. In addition to the above-named "corps marks," there are a number of details, chiefly for regimental convenience, marked on certain vehicles, such as the nature of gun, number of subdivision, number of wagon, &c. These details are not to be mixed up with the corps marks, and will be placed on the front, rear, or near side, as shown in the details given in Table IV.

Details, where given. 4. The details of the marking are given in the following paragraphs, and the marking of each vehicle is to be kept complete, as far

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as possible, so as to leave the least possible amount to be done on mobilization.

4A. All vehicles detailed for use with medical units, such as bearer companies and field hospitals, will be marked with the Geneva cross, in addition to corps marks, &c. Geneva cross 57 Gen. No. 6630

5. Drawings to illustrate the method of marking, and the correct position of the marks, will be issued, on demand, to chief ordnance officers of districts, who will arrange for necessary promulgation to the troops requiring them. The marking of vehicles will be performed by hand-painting, by battery and regimental artificers. In the absence of artificers trained to hand-painting, vehicles will be marked by the army ordnance department. All marking will be in white paint, in letters and numerals, as laid down in Table V. Drawings.

6. Every vehicle, except the gun carriages, limbers, and ammunition wagons of batteries of horse and field artillery, also ammunition columns, will bear on the off side (*vide* paragraph 2), the following marks, which generally require three lines :— Corps marks. 54 Art. 5571

First line.—Title of unit, *e.g.*, 2 Leins. R.

Those for bearer companies are not to receive numbers or titles of corps ; but the company with the 1st cavalry brigade will have, in lieu, "1st cavalry brigade bearer company" (first two lines of marking), and that with the 1st infantry brigade, "No. 1 bearer company" (first line of marking), and so on consecutively. 57 Gen. No. 7176

Second line.—The brigade or division, &c., to which the unit belongs, *e.g.* 3 Inf. Bde.

The details of the first and second lines of the marking are given in Table II., and the abbreviations to be used for the titles of units in Table I.

In the case of cavalry brigade ammunition columns, the brigades, &c., to which the units belong are sufficiently indicated by their titles. The marking of batteries of horse and field artillery and ammunition columns will be placed on the centre of the back of the ammunition boxes of all limbers and ammunition wagons. 54 Art. 5571

Third line.—The service for which each vehicle is intended, *e.g.*, companies, gun ammunition, small-arm ammunition, &c.

The detail of the "Third line," in the case of units where special instructions are necessary, is given in Table III.

This line shows the service to which each vehicle is appropriated, and the details in Table III. are required in order to specify the marking of particular vehicles of those units which have some in their own charge, and some in charge of the Army Ordnance Department, in mobilization storehouses.

7. Since the allotment of most of the units in the field army varies from time to time, as units move from station to station in the course of relief, it is not possible to keep all vehicles permanently marked in full, but where this is possible it is always to be done. Vehicles to be permanently marked where possible.

The extent to which the marking can be completed in anticipation of mobilization depends on the distribution of the vehicles during peace, which is, broadly, as follows :— Distribution of vehicles.

(*a.*) Vehicles in charge of units, and forming part of their peace equipment. Vehicles in charge of units.

These will be kept fully marked, except in the case of batteries of horse and field artillery, the vehicles of which will not be marked

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with the formation to which the batteries are allotted ; this will be added on mobilization.

Regimental transport vehicles.

Regimental transport vehicles for infantry battalions will be marked with an "index number" in addition to, and above, the corps marks. This index number will be inscribed in a circle thus, (15. A list of stations, barracks, and numbers is given in Table VI., of this Appendix.

When vehicles accompany a unit on change of station, or are handed from one unit to another on relief, any necessary changes in the marking will be at once carried out.

Station equipment.

(*b.*) Vehicles forming part of the station equipment of units :—

These will be kept fully marked, with the exception of the letter, number, or designation of the unit, which will be filled in on mobilization, by the particular unit which then uses the equipment.

Vehicles kept by A.O.D.

(*c.*) Vehicles kept by the army ordnance department in mobilization storehouses to complete the equipment on mobilization of units which exist in peace, and the allotment of which is liable to change in course of relief :—

These will be kept fully marked, omitting that part only of the detail in the first line which indicates the actual title of the unit, and the number of the battalion, regiment, &c.

(*d.*) Vehicles kept by the Army Ordnance Department, in mobilization storehouses, for the equipment of units which are to be formed on mobilization, or for those units, existing in peace, the allotment of which is not affected by change of station :—

These units are given in the following list, and the vehicles held for them will be kept marked in full :—

Army Corps, Infy. Divl., Infy. Bde., and Cav. Bde. Staffs.
Regimental staff of corps artillery.
Household Cavalry (composite) Regiment.
Ammunition columns.
Ammunition Parks.
Regimental staff of corps engineers.
"A" troop, bridging battalion, Royal Engineers.
"B" troop, bridging battalion, Royal Engineers.
Divisions of telegraph battalion, Royal Engineers.
Sections of mounted detachment, Royal Engineers.
Balloon sections, Royal Engineers.
Field Parks, Royal Engineers.
Railway companies, Royal Engineers.
Volunteer Engineers in the field army.
Mounted infantry.
Mounted infantry machine-gun sections.
Bearer companies (including those formed by the Volunteer Medical Staff Corps).
Field hospitals.

(*e.*) Vehicles which are on charge of various corps for local purposes. These will be marked to show the purpose to which they are locally appropriated.

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TABLE I.

SHOWING the abbreviations to be used in the first line of the marking, which shows the title of the unit.

Unit.	Abbreviations.
Depôt, Royal Horse Artillery	A. Dep. R.H.A.
F Battery, Royal Horse Artillery	F. R.H.A.
Depôt Field Artillery	1st Dep. R.A.
5th Field Battery, Royal Artillery	5. R.A.
No. 1 Mountain Battery, Royal Artillery ..	1 M.R.A.
Depôt, Royal Engineer Troops	Dep. R.E. Trp.
No. 12 Field Company, Royal Engineers ..	12 Fd. Co. R.E.
Dragoon Guards (*e.g.* 3rd)	3 D.Gs.
Dragoons (*e.g.* 6th)	6 Dgns.
Hussars (*e.g.* 20th)	20 Hsrs.
Lancers (*e.g.* 5th)	5 Lcrs.
(1st Battalion) Grenadier Guards	1 G. Gds.
(2nd ,,) Coldstream Guards	2 C. Gds.
(1st ,,) Scots Guards	1 S. Gds.
Infantry Battalions (Regulars and Militia) ..	Abbreviations to be in accordance with the abbreviations of regimental titles, as in Monthly Army List, pages vii.—xi.

In the case of units not mentioned in this Table, the abbreviations are sufficiently explained in Table II.

TABLE II.

EXAMPLES of the first two lines of the marking alluded to in paragraph 6 of this Appendix.

Unit.	Examples of the first two lines of the marking.
Staff of an Army Corps..	Staff III. A.C.
Regiment of Cavalry	* ..
	2 Cav. Bde.
Regiment of Cavalry (with an Army Corps) ..	* ..
	3 Army Corps.

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* Designation of Regiment.

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Table II.—*continued.*

Unit.	Examples of the first two lines of the marking.
Regimental Staff, Corps Artillery	Corps Art. Staff. III. A.C.
Royal Horse Artillery Battery (with Cavalry Brigade).	* R.H.A. 3 Cav. Bde.
Royal Horse Artillery Battery (Corps Artillery).	* R.H.A. Corps Art. I. A.C.
Field Battery Royal Artillery (with Infantry Division).	* R.A. 3 Inf. Div.
Field Battery, Royal Artillery (with Corps Artillery).	* R.A Corps Art. II. A.C.
Cavalry Brigade Ammunition Column.. ..	3 Cav. Bde. Ammn. Col.
3rd Divisional Ammunition Column	3rd Div. Ammn. Col.
Corps Troops Ammunition Column	II. C.T. Ammn. Col.
Regimental Staff, Corps Engineers	Corps Eng. Staff. II. A.C.
Mounted Section, Royal Engineers	2nd Mtd. Sec R.E. 2 Cav. Bde.
"B" Troop, Bridging Battalion, Royal Engineers.	B. Pont. Trp. R.E. Corps Eng. II. A.C.
Telegraph Division, Royal Engineers	I Div. Tel. Bn. R.E. Corps Eng. I. A.C.
Balloon Section, Royal Engineers	I Balln. Sec. R.E. Corps Eng. I. A.C.
Field Company, Royal Engineers	*Fd. Co. R.E. 3 Inf. Div.
1st London Volunteer Engineers	1 London V.R.E. Corps Eng. III. A.C.
Field Park, Royal Engineers	No. 1 Fd. Park R.E. Corps Eng. I. A.C.
Company Mounted Infantry	* Co. Mtd. Inf. 2 Cav. Bde.
Mounted Infantry Machine-gun Section ..	Mtd. Inf. M-gun Sec. 3 Cav. Bde.
Infantry Battalion	*
Machine-gun Section (Infantry)	* M-gun Sec. 3 Inf. Bde.
Company, Army Service Corps (with Corps Troops II. A.C.).	* Co. A.S.C. II. C.T. Supply Column.
Company, Army Service Corps (with Infantry Division).	* Co. A.S.C. 2nd Div. Supply Column
Company, Army Service Corps (with Infantry Brigade).	* Co. A.S.C. No. 12 Supply Column

* Letter or number of Unit.

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Table II.—*continued.*

Unit.	Examples of the first two lines of the marking.
Company, Army Service Corps (with Cavalry Brigade).	* Co. A.S.C. 1st Cav. Bde. Sup. Col.
Bearer Company (with Cavalry Brigade) ..	1st Cav. Bde. Bearer Co.
Bearer Company (with Infantry Brigade) ..	No. 5 Bearer Co. 5th Inf. Bde.
Field Hospital (with Cavalry Brigade) ..	1st Cav. Bde. Field Hospital
Field Hospital (with Infantry Brigade) ..	No. 5 Field Hospital 5th Inf. Bde.
Field Hospital (with Infantry Division) ..	2nd Div. Field Hospital
Field Hospital (with Corps Troops)	I.C.T. Field Hospital

* Number of Unit.

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TABLE III.

DETAILS of the third line of the marking which indicates the service to which each vehicle is appropriated.

N.B.—A separate series of consecutive numbers to be given to each nature of vehicle in the unit. "Ammunition and Store," or, "Surgery, spring," wagons allowed to units in lieu of "General, service," wagons will, however, be given consecutive numbers in the series for G.S. wagons; but carts supplied in lieu of wagons will be numbered according to the respective natures of such carts. Vehicles on charge of units for peace services, and intended also for war equipment, are to have priority of numbers over those held on mobilisation or station equipment charge.

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Cork.
4164

First two lines of the marking which indicate the Unit and the Brigade, Division, &c., of which it forms part.	Last line of the marking.
Staff III. A.C. 40116 4850	On 1 forage cart.—Intel. Dept. Baggage. On 1 forage cart.—A.S.C. On 2 G.S. wagons.—Hd.-Qr. Baggage. On 3 G.S. wagons.—Hd.-Qr. Supply.
Regt. 2 Cav. Bde. 40116 Eastern. 59 3847 Equipt. 1817	On 1 forage cart.—Hd.-Qr. Baggage. On 1 forage cart.—Hd.-Qr. Supply. On 1 Maltese cart.—Medical Stores. On 2 G.S. wagon. { No. 1 Store. / No. 2 Store. On 3 G.S. wagons. — No. Squadron, Baggage. On 5 G.S. wagons. — No. Squadron, Supply.

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Table III.—*continued.*

First two lines of the marking which indicate the Unit and the Brigade, Division, &c., of which it forms part.	Last line of the marking.
B. Pont. Trp. R.E. Corps Eng. II. A.C.	On 1 forge wagon.—Forge. On 2 G.S. wagons.—Technical. On 3 G.S. wagons, including the wagon in A.O.D. charge.—Stores and Supply.
Balln. Sec. R.E. Corps Eng. I. A.C.	On 4 gas reservoir wagons.—Tubes. On 1 G.S. wagon.—Balloon. On 1 G.S. wagon.—Equipment.
Fd. Co. R.E. 3 Inf. Div.	On 2 forage carts in A.O.D. charge.—Company. On 1 forage cart in R.E. charge.—Supply.
1st London V.E. Corps Eng. III. A.C.	On 2 forage carts in A.O.D. charge.—Company. On 1 forage cart in Regtl. charge.—Supply.
3 Co. Mtd. Inf. 2 Cav. Bde.	On 1 forge wagon.—Forge. On 3 G.S. wagons.—Equipment, &c.
* Corps Troops I. A.C.	In Regtl. charge— On 1 forage cart.—Tools. On 1 G.S. wagon.—Baggage. In A.O.D. charge— On 1 Maltese cart.—Medical Stores. On 1 G.S. wagon.—Store. On 2 G.S. wagons { No. 1 Supply. / No. 2 Supply.

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Equipt.
1817

40116
N. Eastern.
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* Designation of infantry battalion.

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Table III.—*continued.*

First two lines of the marking which indicate the Unit and the Brigade, Division, &c., of which it forms part.	Last line of the marking.
Co. A.S.C. II. C.T. Supply Column.	In Regtl. charge— On 1 forge wagon.* —Forge. On 5 G.S. wagons.—Supply. On 1 G.S. wagon.—Compy. Hd.-Qrs. In A.O.D. charge— On 1 forage cart.—S.O. Equipt. On 1 water cart.—S.O. On 1 G.S. wagon.—S.O. Equipt. On 3 G.S. wagons.—Supply R.R. On other G.S. wagons.—Supply.
38407 quipt. 1611 Co. A.S.C. 2nd Div. Supply Column.	In Regtl. charge— On 1 forge wagon.*—Forge. On 1 G.S. wagon.—Compy. Hd.-Qrs. On 5 G.S. wagons.—Supply. In A.O.D. charge— On 1 forage cart.—S.O. Equipt. On 1 water cart.—S.O. On 1 G.S. wagon.—S.O. Equipt. On 1 G.S. wagon.—Supply R.R. On other G.S. wagons.—Supply.
Co. A.S.C. No. 12 Supply Column.	In Regtl. charge— On 1 forge wagon.*—Forge. On 1 G.S. wagon.—Compy. Hd.-Qrs. On 5 G.S. wagons.—Supply. In A.O.D. charge— On 1 forage cart.—S.O. Equipt. On 1 water cart.—S.O. On 1 G.S. wagon.—S.O. Equipt. On 3 G.S. wagons.—Supply R.R. On other G.S. wagons.—Supply.

* Or wagon carrying forge.

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Table III.—*continued.*

First two lines of the marking which indicate the Unit and the Brigade, Division, &c., of which it forms part.	Last line of the marking.
Co. A.S.C. 1st Cav. Bde. Supply Column.	In Regtl. charge— On 1 forge wagon.*—Forge. On 1 G.S. wagon.—Compy. Hd.-Qrs. On 5 G S. wagons.—Supply. In A.O.D. charge— On 1 forage cart.—S.O. Equipt. On 1 forage cart.—Supply R.R. On 1 water cart.—S.O. On 1 G.S. wagon.—S.O. Equipt. On 1 G.S. wagon.—Supply R.R. On other G.S. wagons.—Supply.

38407
Equipt.
1817

* Or wagon carrying forge.

TABLE IV.

Detailed Marks, on various vehicles, which are to be in addition to the Corps Marks shown in Tables II and III.

Royal Horse and Field Artillery.

Description of vehicle.	Nature and position of marks.	Examples.
Gun carriages	Nature of gun and number of Sub-division on trail, near side.	12-pr.—B.L.—2.
Limbers	Nature of gun, and number of Sub-division on rear of axletree.	12-pr.—B L.—2.
Ammunition boxes ..	*Of Limbers and Wagons.*—Number of Sub-division, in the left top corner of each box in rear.	
Artillery wagons and ammunition and store wagons.	Title of battery, and wagon number low down on rear.	1—R.A. No. 2.
Forge wagon, R.A. ...	Title of battery, and the word "Forge" in rear centres of limber box, limber bed, and wagon body.	A.—R.H.A. Forge.
Store wagon, R.A. ..	As for forge wagon R.A., substituting "Stores" for "Forge."	1—R.A. Stores.

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Art.
5571

40116
5491

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Table IV.—*continued.*

MOUNTAIN ARTILLERY.

Description of vehicle.	Nature and position of marks.	Examples.
Carriages	On near side of trail	1. M. 2·5-in. R.M.L.
Limbers	On rear of bed	10. M. 7-pr. 200 lbs. R.M.L.
Packsaddlery, cradles ...	In most convenient position	1. M. "Ammunition." 10. M. "Carriage."

SIEGE TRAIN.

Gun or howitzer carriages.	The words "Siege Train," the number of the Division* in the train, the nature of the piece, and its number in the Division, on near side of trail or bracket.	Siege Train, No. 4 Divn.* 6·6-in. R.M L. Hr. 4.
Limbers and boxes† ...	The words "Siege Train," the number of the Division in the train, the nature of the piece, and its number in the Division, on rear of bed.	Siege Train, No. 1 Divn., 40-pr. R.M.L. 1.
	Nature of piece, and its number in the Division on left rear of boxes, close to top.	40-pr. R.M.L. 1.
Forge and store wagons.	The words "Siege Train," the number of the Division in the train, and number of the wagon in the Division, on near side of perch.	Siege Train, No. 1 Divn. 2.
40116 5491	The word "Forge" (or "Store") and the number in the Division low down on rear of wagon.	Forge. 1.
Limbers of forge and store wagons.	The words "Siege Train," the number of the Division in the train, the word "Forge" or "Store," and the number of the wagon in the Division, on rear of bed.	Siege Train, No. 1 Divn. Forge. 2.
	The word "Forge" or "Store," and the number of the wagon in the Division, on the rear of the box.	Forge, 2.
Platform wagons	The words "Siege Train," and the number of the Division in the train, on front of bed.	Siege Train, No. Divn.
	The word "Gun" (or "Gyn and Stores"), and the number of the wagon in the Division, on rear of bed.	Gun. 2.
Platforms	The words "Siege Train," the number of the Division in the train, and the number of the platform in the Division, on end of platform when packed.	Siege Train, No. 4 Divn. 1.

* Divisions Nos. 1, 2, and 3 are heavy; Nos. 4, 5, and 6 are medium, and Nos. 7, 8, and 9 are light.

† In the case of spare carriages the word "Spare" will be substituted for the numeral of the carriage or limber.

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Table IV.—*continued.*

Description of vehicle.	Nature and position of marks.	Examples.
Trench carts	The words "Siege Train," and the number of the Division in the train, on the front board.	Siege Train, No. 1 Divn.
	The number of the cart in the Division low down on the tail-board.	2. 40116 / 5491
Sling wagons and limbers.	The words "Siege Train," the number of the Division in the train, and the number of the wagon in the Division, on near side of the bed of wagon, and on rear of axletree bed of limber.	Siege Train, No. 1. 2. Divn.
Ammunition and store wagons.	The words "Siege Train," and the number of the Division in the train, on the front board.	Siege Train, No. 4 Divn.
	The nature of the ammunition carried, and the number of the wagon in the Division, low down on the tail-board.	6·6-in. R.M.L. Hr. 2. 40116 / 5491
Triangle gyns	The words "Siege Train," the number of the Division in the train, and the number of the gyn in the Division, on the middle part of prypole.	Siege Train, No. 1 Divn. 2.
SIEGE COMPANIES.		
Carriages	Title of unit on off side of trail, "Siege Company," and nature of piece on near side of trail.	* E.R.A. Siege Company. — 40-pr. R.M.L. 8-in. R.M.L. howitzer.
Limbers	Title of unit, the words "Siege Company," and nature of piece on rear of bed.	...
Ammunition boxes... ...	Title of unit, the words "Siege Company," and nature of piece, on left rear of each box, close to the top.	...
Ammunition and store wagons.	Title of units, the words "Siege Company," and nature of ammunition carried, low down on tail-board	* S.R.A. Siege Company. — 40-pr. / 25-pr. R.M.L. (1); 8-in / 6·6-in. R.M.L. Howr. (2). 40116 / 5491
Platform wagons	Title of unit, the words "Siege Company," and nature of service.	W.R.A. Siege Company. — Gun. Siege Company. — Gyn.
Trench cart	Title of unit, and the words "Siege Company," on tail-board.	* E.R.A., Siege Company.

* Number of company.

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Table IV.—*continued.*

MOVABLE ARMAMENT.

	Description of vehicle.	Nature and position of marks.	Examples.
	Gun carriages	Nature of piece on near side of trail ...	40-pr. R.B.L. 16-pr. R.M.L.
	Ammunition and store wagons.	On front board	"Movable Armament."
	Hand carts	On front board	"Movable Armament."
	Trench carts	On front board	"Movable Armament."

MISCELLANEOUS VEHICLES.

40116 5491	Pontoon and trestle wagons. Cable carts ... ... Air-line wagon	Title of unit on centre of front; and on rear low down, the word "Pontoon," "Trestle," "Cable," or "Air Line," according to circumstances, and the wagon or cart number ...	A. Pont. Trp. R.E. Pontoon. No. 20. Tel. Bn. R.E. Air Line. No. 3.
40116 4591	Lithographic wagon ... Printing wagon	Title of unit on centre of front; and on rear low down, the words "Lithographic Office," or "Printing Office"	No. 1 Fd. Park R.E. Lithographic Offic
40116 5491	General Service wagon, Royal Engineer.	Title of unit on centre of front; and on rear low down, the word "Stores," or "Photographic" and the wagon number.	No. 3 Fd. Co. R.E. Stores No. 4.
	Double tool cart, Royal Engineer.	Title of unit and cart number on splinter-bar. Cart number on each shaft. The tool boxes of each double cart will be marked with the letters "A" to "H," and with the cart number.	7 R.E. (4) (4) A. 4 B. 4 &c.
40116 5491	Bakery wagon ... ... Travelling oven	Title of unit on centre of front; and on rear low down, the words "Bakery" or "Steam Oven," and the wagon number.	No. 6 Co. A.S.C. Bakery No. 6. No. 7 Co. A.S.C. Steam Oven No.
40116 5491	General Service wagons (all patterns).	Title of unit on centre of front; and on rear low down, the wagon number. N.B.—The word "Forge" to be added in rear, when the wagon is fitted to carry a forge.	No. 5 Co. A.S.C. Supply No. 3.
40116 5491	Ambulance wagon	Title of unit on centre of front; and on rear low down, the wagon number.	No. 3 Brr. Co. M.S.C. Ambulance No. 10.

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Table IV.—*continued.*

Description of vehicle.	Nature and position of marks.	Examples.	
Small-arm ammunition carts.	Title of unit on centre of front; and on rear low down, "S.A. Ammn," and the cart number.	1 G. Gds. S.A. Ammn. No. 3.	40116 4046 5491
Intrenching tool carts ...	Title of unit on centre of front; and on rear low down, the words "Intrenching Tools"	2 N. Lan. Regt. Intrenching Tools.	40116 4046 5491
Forage carts (for H.Q., Cavalry Regiments).	Title of unit on centre of front; and on rear low down, the word "Supply," and cart number.	20th Hsrs. Supply No. 1.	5491
Water carts (barrel) ...	Title of unit on centre of front; and on rear centre, the cart number.	No. 5 Co. A.S.C. No. 15.	57 Ports 2834
Water carts (tank)	Title of unit on splinter bar; and on brake bar, the cart number.	No 5 Co. A.S.C. No. 15.	57 Gen. No. 6630
Forage carts	Title of unit on centre of front; and on rear low down, the cart number.	No. 8 Co. A.S.C. Supply No. 2.	40116 5491
Ambulance carts	Title of unit on centre of front; and on rear low down, the cart number.	No. 3 Brr. Co. M.S.C. Ambulance No. 10.	40116 5491
Oven wagon, Grove's ...	Title of unit on centre of front; and on rear centre, the word "Oven," and the wagon number.	No. 7 Co. A.S.C. Oven No. 3.	
Small-arm ammunition wagon, with limber (Cavalry).	Title of unit on rear of limber, and the cart number abbreviated in rear low down of limber and wagon.	19th Hsrs. No. 2.	57 Ports 2834

TABLE V.

SHOWING nature and size of letters and numerals to be used.

Marking.	Nature of letter or numeral.	Size.
		inches.
Number of Army-Corps	Roman numerals	1¼
Other numbers	Gothic numerals	1¼
Initial letter of each word	Roman capital	1¼
Other letters in each word... ...	Roman capitals, or small Roman letters.	⅝
All letters in abbreviations... ...	Roman capitals, or small Roman letters.	⅜

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TABLE VI.

SHOWING "Index number" to be used, *see* para. 7 (*a*) of this Appendix.

Station.	Barracks.	Index No.	Remarks.
York	Battalion ..	51	
Sheffield	Infantry ..	50	
Preston	Fulwood ..	2	
Lichfield	Battalion ..	48	
Colchester	Infantry ..	44	One battalion temporarily at Chatham.
,, ...	Hut	45	
,, ...	,, ...	46	
Warley	Battalion ..	47	
Devonport	South Raglan ..	9	
,, ...	North Raglan ..	56	Temporarily at Manchester.
,, ...	Fort Tregantle ..	10	
Plymouth	Crown Hill ..	8	Temporarily at Citadel.
Pembroke Dock ..	Hut	57	
Portsmouth ..	Cambridge ..	58	Temporarily at Portsdown Hill.
,, ...	Victoria	75	
Gosport	Barracks ..	24	
Isle of Wight ..	Parkhurst ..	59	
Portland	Verne Citadel ..	11	
Chatham	Chatham ..	60	
Dover	South Front ..	54	
,, ...	Grand Shaft ..	55	
,, ...	Citadel	61	
Shorncliffe	Moore	52	
,, ...	Napier (not yet built)	53	Temporarily at Brighton.
London	Wellington ..	5	
,, ...	,, ..	7	
,, ...	Chelsea	6	
,, ...	,, ..	62	
,, ...	Tower	4	
Windsor	Infantry ..	63	
Woolwich	Cambridge ..	3	
,, ...	Royal Artillery ..	64	Temporarily at Newry.
Aldershot	Albuhera ..	13	
,, ...	Maida	14	
,, ...	Mandora ..	20	
,, ...	Barrosa	12	
,, ...	Corunna ..	15	
,, ...	Malplaquet ..	1	
,, ...	Oudenarde ..	16	
,, ...	Tournay ..	18	
,, ...	Ramilies ..	17	
,, ...	Blenheim ..	19	

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Table VI.—*continued.*

Station.	Barracks.	Index No.	Remarks.
Aldershot	Talavera ..	22	
„	Badajos	23	
„	Salamanca ..	21	
„	..	25	Temporarily at Portsmouth (Anglesea) till barracks built.
Woking	Inkerman ..	26	
Edinburgh	Castle	65	
Glasgow	Maryhill ..	66	
Jersey	Fort Regent ..	67	
Guernsey	Fort George ..	68	
Belfast	Infantry ..	28	
„	Holywood ..	29	Temporarily at Willow
Londonderry ..	Infantry ..	27	Temporarily at Enniskillen.
Dublin	Wellington ..	36	Temporarily at Birr.
„	Beggar's Bush ..	37	
„	Richmond ..	38	
„	„ ..	39	
„	Royal	40	
„	Portobello ..	69	
Athlone	Infantry ..	70	
Mullingar	Barracks ..	30	
Curragh	"C" Square ..	41	
„	"H" „ ..	42	
„	"G" „ ..	43	
Cork	Infantry, East ..	32	
„	„ West ..	33	
Buttevant	Barracks ..	71	
Fermoy	New	34	
„	Old	35	
Kilkenny	Infantry ..	72	
Kinsale	„ ..	73	
Limerick	„ ..	74	Temporarily at Templemore.
Tipperary	„ ..	31	
.. ..	..	49	Vacant (last assigned to Manchester). Battalion abroad.

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APPENDIX XI.

(REFERRED TO IN PARAGRAPH 265B.)

LIST of TOOLS and STORES which will be supplied to Commanding Royal Engineers of Districts for the Instruction of the Troops in Military Engineering.

A.O. 9. 1897

Description of Articles.	For Company of R.E. except West India Fortress Coy., R.E.	For Half-Company of R.E. at Ceylon and Singapore.	West India Fortress Coy., R.E.			For Battalion of Infantry except Mauritius, Barbados, St. Lucia, and Ceylon.	For Infantry at Mauritius, Barbados, St. Lucia, and Ceylon.	For Staff Officer for Instruction.	Extra stores specially authorised.			Remarks.
			Jamaica.	St. Lucia.	Sierra Leone.				For Royal Engineers at Curragh.*	For Infantry at Dublin.	For Infantry, Tower of London.	
Woolwich Store Charge, No. 1.												
ACCOUTREMENTS.												
Caps, knee, Royal Engineers	8	...	6	4	4							
Woolwich Store Charge, No. 2.												
CAMP EQUIPMENT.												
Axes, { felling, curved helve	2	1	2	2	2	2	...	...	...	...	1	† Where brushwood is dear.
{ hand, 2 lbs.	6	3	3	3	3	6						
Bags, sand, common	1,000	500	250	250	250	500	500	100	500†			Annual expenditure 35 per cent.
Chokers, fascine ... ... pairs	4	2	2	1	1	8	...	2				
Forks, sandbag	4	2										
Gabions, Jones', { bands, sets of 10	100	50	50	25	25	20‡	...	10				
{ pickets	...	...	...	...	...	24‡						
Hooks, bill...	20	10	6	6	6	25	12	2				
Knives, gabion	12	5	5	5	5	25	...	2				
Ladders, scaling, 6 feet (with lashings) §												
Lines, tracing	10	5	6	6	6	12	10	6				
Mallets, fascine	8	5	5	5	5	12	2	2				
Mauls, G.S., mark III.	4	2	2	2	2	2	2	...	...	....	2	

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Pickets,	fascine cradle ... ... pairs	20	10	5	5	5	40	...	5	...	...	...		
	gabion, common	1,200	600	600	300	300	1,000	...	120	...	...	...		
	tracing, unbarked	100	50	...	...	...	300	...	...	...	100	50	Annual supply.	
Posts, picket,	5-feet	8	4	8	8	8	8	8	8	...	4	8		
	2½ ,, ...	...	...	...	...	...	...	4	...	...	....	4		
Tapes, tracing		10	5	6	6	6	10	...	2	...	...	2		
Tools for Intrenching.														
Axes, pick,	heads, 5-lbs.	120	60	50	25	25	150	100	25	...	...	4		
	helves, 34½-ins.	120	60	50	25	25	150	100	25	...	...	4		
Barrows, wheel, intrenching,	mark II., with wheels	...	...	...	...	...	...	...	2					
	wrenches	...	...	...	...	...	...	...	1					
Bars, crow,	4-feet 6-inches	4	2	1	1	1	2	2	...	...	...	2		
	3 ,, 6 ,, ...	4	1	1	1	1	2	2	...	...	...	2		
Models,	bags, sand	...	...	1,000	500	500	200	500	500					
	boards, knot, 2′ 8″ × 4′ 9″	...	...	1	1	1	1	1		...	...	1		
	fascines	...	...	80	40	...	40	100	150					
	gabions, Jones'	...	...	150	100	100	40	150	150					
	magazines, rectangular	...	...	1	1	...								
	pins, iron, tracing, large	...	...	50	50	50								
	pins, iron, tracing, small	...	...	50	50	50	40	100						
	platforms, siege, double decked, "C" pivot ...	...	...	2	1	1								
	rods	...	...	6	4	4	4	10	6					
	planks, bridging	...	...	45	45	45	...	...	60					
Models, timber,	spars, bridging, 8-ft. 9-in., diameter at butt, 2½-in.	...	...	...	...	...	...	...	4					
	spars, bridging, 7-ft. 6 in., ,, ,, 2½ in.	...	...	...	...	...	...	...	4					
	spars, bridging, 7-ft. 6-in., ,, ,, 1½ in.	...	...	...	...	...	...	...	6					
	spars, bridging, 6-ft. 3-in., ,, ,, 2-in.	...	...	4	2	2	...	...	6					
	spars, bridging, 5-ft. 6-in., ,, ,, 1½-in.	...	...	8	4	4	...	...	15					
	spars, bridging, 5-ft. ,, ,, 1½-in.	...	...	20	10	10	...	...	4					
	spars, bridging, 3-ft. 9 in. ,, ,, 2½ in.	...	...	4	2	2	...	...	4					
	spars, bridging, 3-ft. 9-in. ,, ,, 1¾-in.	...	...	20	20	20	...	...	7					
	spars, bridging, 1-in. to 1½-in. diameter foot run	...	...	50	50	50	...	...	50					
	splinter proofs	..	...	200	100	100	...	50	50					
Rammers, earth		2	2	2	2	2	...	..	2					
Scrapers, earth		4	2	2	1	1								
Shovels,	miners, short	6	...	2	2									
	universal	120	60	50	25	25	150	100	25	...	...	4		
Spades, N.P.		5	3	3	2	2	6	...	2					

* Including additional expendible stores for the instruction of the Survey Detachment, R.E. † For the instruction of the Survey Detachment, R.E.

§ Forty ladders with lashings are allowed for use of battalions of infantry and fortress companies, R.E., at Devonport, Dover, Dublin, Edinburgh, Halifax, N.S., Portsmouth, and Tower of London. At Hong Kong, Ceylon, Straits Settlements, and Jamaica, ladders of the ordinary standing or of a locally improvised pattern, are to be used in the proportion of 12 to each station. At other stations 12 scaling ladders with lashings will be allowed for each fortress company, R.E., but in these cases, should such articles be available in the army ordnance department as part of any authorized reserve, they will be issued therefrom temporarily for the purpose, and additional ones need not be provided.

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Appendix XI—*continued.*

Description of Articles.	For Company of R.E., except West India Fortress Coy., R.E.	For Half-Company of R.E. at Ceylon and Singapore.	West India Fortress Coy., R E.			For Battalion of Infantry, except Barbados, St. Mauritius, Lucia, and Ceylon.	For Infantry at Mauritius, Barbados, St. Lucia, and Ceylon.	For Staff Officer for Instruction.	Extra stores specially authorised.			Remarks.
			Jamaica.	St. Lucia.	Sierra Leone.				For Royal Engineers at Curragh.*	For Infantry at Dublin.	For Infantry, Tower of London.	
Miner's Tools and Stores.												
Bars, pinching, 3-feet	2	2	1	1	1	2						
Blower, rotary { hose, 1¼-in. delivery, 20 feet ...	5	...	3	3								
Blower, rotary { wrench (Mark I)	2	...	1	1								
Buckets, miner's	4	...	2	2								
Candlesticks, miner's	20											
Cases, mining, { common, gallery	20											
Cases, mining, { shaft	40	...	30	30								
Frames, mining, { branch, gallery	6											
Frames, mining, { common, gallery	8											
Frames, mining, { shaft	12	...	6	6								
Frames, mining, { shaft top	2	...	1	1								
Ladders, rope, miner's, 20-feet...	3	...	1	1								
Picks, push	6	...	2	2								
Trucks, miner's	4	...	1	1								
Wire, iron, galvanized, barbed ... ... lbs.	56	28	56	56	56	28	56	...	28†	...	...	Annual expenditure 50 per cent.
Woolwich Store Charge, No. 4.												
Carts and Wagons.												
Casks, water, 108 gallons	28	28‡	28	28	...	...	...	...	...	28	...	‡ To be provided locally at Singapore; not supplied at Woolwich and Ceylon.
Woolwich Store Charge, No. 5.												
[illegible]	...	...	...	...	...	...	...	1				

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Woolwich Store Charge, No. 7.													
Tools, Artificer's and Labourer's, A to J.													
Augers, screw, bull-nosed, 2-inches		2	1	...	2								
Augers, screw, bull-nosed, 1-inch		2	1	...	2								
Augers, screw, common, 1⅝-inch		2	1										
Augers, handles, 18½-inch		2	1	...	2								
Augers, handles, 16-inch		2	1	...	2								
Chalk, prepared, red and blue ...boxes		...	...	...	...	...	...	...	2	...	...	...	} Annual supply.
Chalk, prepared, white ... ... ,,		1	1	1	1	1	1	1	...	...	...	...	
Chisels, brick, 18-inches		...	...	...	...	...	...	...	...	...	...	4	
Dogs, sawyer's cross, 15-inches		20	20	...	...	...	40	...	...	...	...	...	} Annual expenditure 50 per cent.
Dogs, sawyer's straight, 15-inches		20	20	...	...	...	40	...	...	...	...	...	
Gimlets, spike, ½-inch		2	1										
Grindstones, F S., 16-inches		1	1	1	1	1	2	...	1				
Hammers, claw, 20-ozs		4	1	1	1	1	...	...	2				
Hammers, collar maker's		...	...	...	...	...	...	2					
Hammers, smith's, sledge, 12 lbs....		...	...	...	...	...	2	2					
Woolwich Store Charge, No. 8.													
Tools, Artificer's and Labourer's, K to Z.													
Levels F.S., 4-feet		4	2	2	1	1	2	1	2	...	...	1	
Mallets, carpenter's		2	1										
Pliers, sidecutting, 7-inch ... ... pairs		4	2	...	...	...	4	6					
Saws, cross-cut, blades, 7-feet		1	1	...	...	...	1	...	...	...	...	1	
Saws, cross-cut, handles .. .. pairs		1	1	...	...	...	1	...	...	...	...	1	
Saws, hand, 26-inch		6	3	2	1	1	1	...	2	...	...	1	
Spikes, marline, iron, 10-inch		10	5	5	5	5	...	...	5	...	...	40	
Trowels, modelling		...	...	20	20	20	20	50					
Wire, iron, No. 24 W.G. ... ... lbs.		...	...	...	...	...	5	...	...	...	...	...	For fixing barbed wire.
Wire, iron, No. 14 W.G. .. .. ,,		200	100	112	112	112	12	200	...	84†	...	...	Annual expenditure 50 per cent.
Woolwich Store Charge, No. 10.													
Iron and Nails. (Part 2.)													
Anchors, boat, 1 cwt.§		4	4	4	4	4	...	...	...	...	4	...	Not supplied at Woolwich and Ceylon.
Chain, iron, crane, ½-inch ... ... fms.		33											
Nails, steel, brad, cut, fine, No. 1 ... ... lbs.		...	...	...	...	...	...	½	...	...	...	...	} Annual supply.
Nails, steel, clasp, cut, No. 63 ... ... ,,		28	14	...	...	...	14	...	...	...	...	...	} Forms G. 989/20.
Nails, steel, spike, No. 184 ... ... ,,		28	14	...	...	...	100	...	...	...	...	...	

* Including additional expendible stores for the instruction of the Survey Detachment, R.E.
† For the instruction of the Survey Detachment, R.E.
§ Not included in third set of stores authorised for Aldershot.

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Description of Articles.	For Company of R.E., except West India Fortress Coy., R.E.	For Half-Company of R.E. at Ceylon and Singapore.	West India Fortress Coy., R.E.			For Battalion of Infantry, except Mauritius, Barbados, St. Lucia, and Ceylon.	For Infantry at Mauritius, Barbados, St. Lucia, and Ceylon.	For Staff Officer for Instruction.	Extra stores specially authorised.			Remarks.
			Jamaica.	St. Lucia.	Sierra Leone.				For Royal Engineers at Curragh.*	For Infantry at Dublin.	For Infantry, Tower of London.	
Woolwich Store Charge, No. 11.												
OIL, PAINT, CHEMICALS, ETC.												
Chalk, white ... ... lbs.	1	1	1	1	1	10	1	4	...	...	2	Annual supply.
Woolwich Store Charge, No. 12.												
TIMBER.												
Sheeting, miner's ... ... pieces	80	...	20	20								
Timber :—												
Planks, bridging service, 10′ × 12″ × 1½″ ...	100	60	45	45	45	40	40	40	...	75		
Length Diameter												
Spars, bridging service—												
41 feet ... at butt 10 inches	4											
35 ,, ... ,, 10 ,, ...	4	4	...	...	...	...	...	...	...	4		
30 ,, ... ,, 10 ,, ...	10	10										
30 ,, ... ,, 6 ,, ...	...	...	...	...	...	...	...	...	...	14		
25 ,, ... ,, 10 ,, ...	6	6	4	4	4	2		4				
25 ,, ... ,, 8 ,, ...	...	...	2	2	2	...	2					
24 ,, ...	...	...	...	...	...	4†	4					
22 ,, ... at butt 9 inches to 10 inches	...	...	...	...	...		...		...	...	4	
22 ,, ... ,, 6 ,, ...	15	15	15	15	15	15	...	10	...	4	...	
20 ,, ... ,, 6 ,, ...	...	...	...	...	...	15†	20	...	...	...	10	
20 ,, ... ,, 5 ,, ...	4	4	12	12	12	4	...	4				
20 ,, ... ,, 3 ,, ...	...	...	...	...	...	20†	8	...	...	4	4	
20 ,, ... mean 3 inches to 6 inches ...	...	...	...	...	...	...	6	...	...	...	4	

At stations abroad, timber for bridging purposes will be provided locally in all cases where such a course will result in economy. The description of timber will be left to the discretion of the Commanding Royal Engineers.

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Length	Diameter											
Spars, bridging service—												
16 feet ...	at butt 9 inches...	4	4	2	2	2	4	...	3	...	...	...	
16 ,, ...	,, 7 ,, ...	7	7	2	2	2	7	...	4	...	...	...	
16 ,, ...	,, 6 ,, ...	...	...	...	...	...	...	6	...	...	...	...	
15 ,, ...	,, 10 ,, ...	...	...	...	...	...	3†	2	...	...	3	1	
15 ,, ...	,, 6 ,, ...	...	...	...	...	...	6†	4	...	...	7	2	
15 ,, ...	mean 4 inches	...	...	...	...	...	...	...	...	...	6	4	
13 ,, ...	,, 5 ,, ...	...	...	...	...	...	...	8	...	...	...	...	
12 ,, ...	,, 7 ,, ...	...	...	...	...	...	...	...	...	...	8	...	
12 ,, ...	,, 3 ,, to 6 inches ...	...	...	...	...	...	...	...	...	...	4	...	
12 ,, ...	,, 2½ ,, to 4 ,, ...	...	...	...	...	...	...	...	...	...	8	...	
10 ,, ...	,, 6 ,, ...	...	...	...	...	...	6†	...	...	...	...	...	
6 ,, ...	,, 3 ,, to 2½ inches ...	...	...	...	...	...	...	...	...	...	8	...	
6 ,, ...	,, 2 ,, to 3 ,, ...	...	...	...	...	...	...	...	...	...	12	...	
2 ,, ...	,, 2 ,, ...	...	...	...	...	...	...	...	...	...	8	...	
Slight, length and size immaterial	foot run	...	...	100	100	100	...	...	...	...	...	...	
In baulk, 9 inches to 14 inches square, 200 cubic feet	... loads	4	4	...	...	...	...	...	...	...	..	...	
Spars, 7 inches to 9 inches diameter (in 10 to 20 feet lengths)	foot run	300	300	...	...	...	...	...	...	...	...	...	
Profiling stuff { $1\frac{1}{2}'' \times \frac{3}{4}''$ ... ... ,,		...	...	...	...	...	...	...	...	...	...	...	Local purchase. Annual supply 10/- per battalion; 5/- per class.
Profiling stuff { (model) $\frac{1}{4}'' \times \frac{1}{4}''$ ... ,,		...	...	...	...	...	...	500	...	...	...	...	
Woolwich Store Charge, No. 14.													
GARRISON AND SIEGE MOUNTINGS, ETC.													
Handspikes, common, 6-feet		6	3	3	2	2	...	2	2	...	2	2	
Platforms, siege, double-decked, fitted with anchoring arrangements for 6-in. B.L. howitzer ...		1	1	1	1	1	...	...	...	...	...	...	
Woolwich Store Charge, No. 18.													
SIDE ARMS, BLOCKS, CORDAGE, ETC.													
Blocks, malleable iron { 7-in. { double		1	1	1	1	1	...	...	...	...	...	...	
7-in. { treble		1	1	1	1	1	...	...	...	..	...	...	
7-in. { snatch		2	1	1	1	1	...	...	...	...	...	2	
4-in. { double		1	1	1	1	1	...	...	1				
4-in. { single		2	2	2	2	2	...	...	1				
Cordage, tarred, spunyarn, hemp, 3-thread...	lbs.	40	14	14	7	7	14	10	28	...	7	14	Annual supply.
Guys, tarred, 3-inch, 20 fathoms		8	8	8	8	8	8	...	...	...	...	8	

* Including additional expendible stores for the instruction of the Survey Detachment, R.E.

† For a single lock bridge or a trestle bridge of 3 bays of 10-feet legs. (See Manual of Military Engineering.)

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APPENDIX XI—*continued.*

Description of Articles.	For Company of R.E. except West India Fortress Coy. R.E.	For Half-Company of R.E. at Ceylon and Singapore.	West India Fortress Coy., R.E.			For Battalion of Infantry, except Mauritius, Barbados, St. Lucia, and Ceylon.	For Infantry at Mauritius, Barbados, St. Lucia, and Ceylon.	For Staff Officer for Instruction.	Extra stores specially authorised.			Remarks.
			Jamaica.	St. Lucia.	Sierra Leone.				For Royal Engineers at Curragh.*	For Infantry at Dublin.	For Infantry, Tower of London.	
Woolwich Store Charge, No. 18—cont.												
Lines, Hambro'	10	5	5	2	2	2	2	6	...	...	1	
Selvagees, ordinary, 4-ft.	...	...	...	...	...	...	...	...	...	2		
Twine, whipping, coarse ... ... lbs.	7	4	7	7	7	4	4	7	...	...	7	Annual supply.
3-in. steel wire cable, 50 fathoms, with eyesplice at one end	2	...	...	...	...	...	...	...	...	...	...	
Woolwich Store Charge, No. 19.												
57 1. of W. 1522 HALF WROUGHT STORES.												
Brushwood—												
Fascines ... ... bundles	¶	...	...	...	...	¶	...	...	100†	24	...	¶ For the Royal Engineers three bundles of brushwood, and for Infantry two bundles (one for fascines and one for gabions) per man exercised annually
Gabions ... ... ,,	¶	...	...	...	...	¶	...	...	100†	...	...	
Pickets** (High wire entanglements) ,,	...	...	4	4	4	100	2	...	...	...	...	**These pickets can be cut in half for low wire entanglements or fascines.
Woolwich Store Charge, No. 21.												
GUNCOTTON AND GUNPOWDER.‡												
Cordite, $\frac{5}{11}$... ... ... lbs.	20	...	...	...	...	...	...	...	...	...	...	
Guncotton, dry primers, one $1\frac{3}{4}'' \times 1\frac{3}{8}''$ ... ,,	5	3	2	2	2	...	...	...	2†	...	...	Annual supply.
perforation - $1\frac{1}{4}'' \times 1\frac{1}{4}''$ ... ,,	5	3	2	2	2	...	...	...	2†	...	...	
wet slabs, two $6\frac{1}{2}'' \times 6\frac{1}{2}'' \times 1\frac{3}{8}''$,,	15	10	6	6	6	...	...	...	12†	...	...	
perforations $6\frac{1}{2}'' \times 6\frac{1}{2}'' \times 1\frac{1}{8}''$,,	15	10	6	6	6	...	...	...	12†	...	...	
Gunpowder, R.L.G.§ ... ... ,,	50	25	50	50	50	...	...	...	25†	...	...	

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Woolwich Store Charge, No. 22.													
FUZES, ETC.													
Detonators, electric, No. 13	25‖	12	...	...	...	...	...	...	...	12†	...	...	Annual supply.
Detonators, No. 8	25‖	12	15	15	15	...	...	...	...	12†	...	...	
Fuze, instantaneous ... yards	100‖	50	25	25	25	...	...	...	...	50†	...	...	
Fuze, safety, Tangye's fathoms	50‖	25	12	12	12	...	...	...	...	25†	...	...	
Fuzes, electric, No. 14 ...	25‖	12	...	...	...	...	...	...	...	...	...	...	
Matches, Vesuvian ... boxes	5‖	3	2	2	2	...	...	...	...	3†	...	...	
Woolwich Store Charge, No. 25.													
BARRACK AND HOSPITAL STORES. (PART 1.)													
Boards, black, musketry instruction ...	...	...	...	...	...	...	...	...	1	...	...	...	
Easels, musketry instruction ...	...	...	...	...	...	...	...	...	1	...	...	...	
Models, elementary ... sets	...	...	...	...	...	...	...	...	2	...	...	...	
Sponges, G.S. ...	...	...	...	...	...	...	...	...	1	...	...	...	
Woolwich Store Charge, No. 26.													
BARRACK AND HOSPITAL STORES. (PART 2.)													
Casks, water, 54 gallons	30*a*	...	...	...	...	...	...	...	...	...	...	...	
Stones, rub, scythe	6	3	1	1	1	6	...	...	...	...	...	...	
Woolwich Store Charge, No. 27.													
TEXTILE STORES.													
Check, cotton ... yards	...	...	...	...	...	...	...	2	...	...	...		
Gloves, hedging ... pairs	3	2	3	3	3	3	3	...	...	...	...	For barbed wire.	
Woolwich Store Charge, No. 28.													
SUBMARINE MINING STORES.													
Apparatus, diving, gloves ... pairs	1	1	...	...	...	...	...	...	...	...	...		
Exploders, dynamo, electric ...	1	1	...	...	...	...	...	...	...	...	...		

* Including additional expendible stores for the instruction of the Survey Detachment, R.E.

† For the instruction of the Survey Detachment, R.E.

‡ Guncotton will not be demanded for Field Companies, R.E.

Four times the quantity of guncotton and gunpowder, as for a Company, R.E., will be allowed to Gibraltar, and twice the quantity to Malta.

§ See also Dynamite, and note.

‖ Will not be demanded for Field Companies, R.E.

Special quantities as under are allowed for the instruction of the Royal Engineers at Gibraltar and Malta—

	Gibraltar.	Malta.		Gibraltar.	Malta.
Detonators, electric, No. 13	100	50	Fuze, instantaneous ... yards	400	200
Detonators, No. 8	100	50	Fuze, Tangye's ... fathoms	200	100
			Matches, Vesuvian ... boxes	20	10

a Authorised for supply at Malta, Gibraltar, and Aldershot. Two full sets are authorised for Gibraltar and Aldershot, one set will include casks, water, 108 gallons; and the other, casks, water, 54 gallons. The third set of stores authorised for Aldershot will not include casks, water.

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Appendix XI—*continued.*

Description of Articles.	For Company of R.E., except West India Fortress Coy., R.E.	For Half-Company of R.E. at Ceylon and Singapore.	West India Fortress Coy., R.E			For Battalion of Infantry, except Barbados, St. Lucia, and Ceylon	For Infantry at Mauritius, Barbados, St. Lucia, and Ceylon.	For Staff Officer for Instruction.	Extra stores specially authorised.			Remarks.
			Jamaica.	St. Lucia.	Sierra Leone.				For Royal Engineers at Curragh.*	For Infantry at Dublin.	For Infantry, Tower of London.	
Woolwich Store Charge, No. 28—cont.												
PONTOON STORES.†												
Pontoons—												
Buoys	4	4	4	4	...	...	...	...	...	4	...	
Cables	4	4	4	4	...	...	...	...	...	4	...	
Hooks, boat, 11-feet 7½-inches	2	2	2	2	...	...	...	...	...	2	...	
Lashings, oar	4	4	4	4	...	...	...	...	...	4	...	
Oars, ash, leathered, 12 feet	14	14	14	14	...	...	...	...	...	14	...	
SUPERSTRUCTURE.												
Pontoons—												
Baulks, { barrel pier, 15′ × 4″ × 4″	20	20	20	20	...	...	...	...	...	14	...	
Baulks, { mark II.	...	...	...	..	...	...	...	...	15	...	...	
Braces, barrel pier	48	48	48	48	...	...	...	...	...	48	...	
Chesses	...	...	...	...	...	...	...	...	54	...	30	
Gunnels, barrel pier, raft	8	8	8	8	...	...	...	...	...	8	...	
Lashings, transom, 16-feet	32	32	32	32	...	...	...	...	...	32	...	
Lines, breast, 60-feet...	12	12	12	12	...	...	...	...	...	12	...	
Outriggers, barrel pier, raft	4	4	4	4	...	...	...	...	...	4	...	
Ribands, barrel pier, raft	8	8	8	8	...	...	...	...	6	...	...	
Slings, barrel pier, raft	8	8	8	8	...	...	...	...	...	8	...	
Sticks, rack	24	24	24	24	...	24	30	...	18	30	60	
Tie baulks, barrel pier, raft	8	8	8	8	...	...	...	...	...	...	...	
Transoms, mark III.	...	...	...	...	...	...	...	...	2	...	...	
Trestles	...	...	...	...	...	...	...	...	2	...	...	
Ways, launching, barrel pier ... ... pairs	1	1	1	1	...	...	...	...	...	1	...	

† Only half the quantities of Pontoon Stores shown in column 2 allowed for Singapore, except "Ways, launching, barrel pier," of which one pair will be allowed.

Not included in third set of stores authorised for Aldershot.

At stations abroad, timber for bridging purposes will be provided locally in all cases where such a course will result in economy. The description of timber will be left to the discretion of the Commanding Royal Engineers.

Not supplied at Woolwich and Ceylon.

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Woolwich Store Charge, No. 29.														
TELEGRAPH EQUIPMENT, ETC.														
Batteries, Leclanché, telegraph, 6 block agglomerate, S.M. pattern, 5 cells	1	1	..	...	...	...	...	...	...	...	...			
Blowers, rotary, {	2	...	1	1	...	...	...	...	...	...	...			
Blowers, rotary, { hose, 1¼-in. delivery, 20-ft. lengths ...	5	...	5	5	...	...	...	...	...	...	...			
Blowers, rotary, { wrench, mark I.	2	...	2	2	...	...	...	...	...	...	...			
Boards, sketching, cavalry	...	...	...	...	...	...	...	2	...	...	...			
Boxes, testing and jointing, F.S.	1	1	...	...	...	...	...	...	...	...	...			
Chains, measuring, 66-feet	..	...	...	...	...	...	...	1	...	...	...			
Clinometers, mirror	...	...	...	...	...	...	...	1	...	...	...			
Compasses, prismatic, G.S.	...	...	...	...	...	...	...	6	...	...	...			
Instruments, drawing, R.E. ... ... sets	...	...	...	...	...	...	...	1	...	...	...			
Levels, pocket	...	...	...	...	...	...	...	2	...	...	...			
Protractors, ivory, 6 inches	...	...	...	...	...	...	...	6	...	...	...			
Rods, measuring, common, 6-feet	10	5	6	3	3	6	10	4	...	...	2	One only for Ceylon.		
Rulers, { flat, ebony, 2-feet	...	...	...	...	...	...	...	1	...	...	...			
Rulers, { parallel, rolling, 2-feet 6-inches	...	...	...	...	...	...	...	1	...	...	...			
Scales, mathematical, No. 3, Marquoi	...	...	...	...	...	...	...	1	...	...	...			
Sextants, pocket	...	...	...	...	...	...	...	2	...	...	...	57		
Tables, plane	..	...	...	...	...	...	...	1	...	...	...	Devonport		
Tapes, measuring, 50-feet	2	1	2	2	2	1	...	2	...	...	2	6949		
Wire, covered, C 8 ‡ ... ... miles	½	½	...	...	...	...	...	...	...	...	...			
NOT IN VOCABULARY.														
Cordage, old, for teaching knots ... ... lbs.	28	14	14	10	10	28	...	28	...	...	28	Annual supply.		
Dynamite§ ... ... ,,	10	10	...	...	...	...	...	...	10‖	...	...	Provided locally. Annual supply.		
Falls, { 3-inch rope, tarred, 40 fathoms	2	1	1	1	1	...	...	...	...	...	...			
Falls, { 1½ ,, ,, ,, 20 ,, ...	1	1	1	1	1	...	...	1	...	...				
Falls, { 2 ,, ,, ,, 15 ,, ...	2	2	2	2	2	2	...	2	...	2	...			
Lashings, tarred, { 2-inch, 6 fathoms	20	8	8	8	8	12	12	8	...	...	...			
Lashings, tarred, { 1½ ,, 6 ,, ...	20	14	14	14	14	20	20	14	...	40	...			
Lashings, tarred, { 1½ ,, 2½ ,, ...	...	...	...	...	...	...	...	...	...	30	...			
Lashings, tarred, { 1 ,, 6 ,, ...	113	10	10	10	10	20	20	10	...	10	10			
Lashings, tarred, { 1 ,, 1 ,, ...	...	...	...	...	...	36	...	...	...	...	36	For teaching knots.		

* Including additional expendible stores for the instruction of the Survey Detachment, R.E.

‡ 100 yards may also be expended annually.

§ At stations where dynamite cannot be provided locally, it will not be supplied, but twice the quantities of gun-powder included in this Appendix, page 155, may be drawn.

Special quantities (or gunpowder in lieu) are allowed to Gibraltar and Malta, viz.:—

Gibraltar ... ... 80 lbs.
Malta ... . 40 lbs.

‖ For the instruction of the Survey Detachment, R.E.

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Appendix XI—*continued.*

Description of Articles.	For Company of R.E., except West India Fortress Coy., R.E.	For Half-Company of R.E. at Ceylon and Singapore.	West India Fortress Coy., R.E.			For Battalion of Infantry, except Mauritius, Barbados, Lucia, and Ceylon.	For Infantry at Mauritius, Barbados, St. Lucia, and Ceylon.	For Staff Officer for Instruction.	Extra stores specially authorised.			Remarks.
			Jamaica.	St. Lucia.	Sierra Leone.				For Royal Engineers at Curragh.*	For Infantry at Dublin.	For Infantry, Tower of London.	
Woolwich Store Charge, No. 29—cont.												
Models, uncontoured, 6 to a set ... ... sets	...	...	...	...	...	...	...	1	...	...	...	
Pans, warming, for thawing dynamite	1	...	...	...	...	...	...	...	...	...	...	
Pickets, { 5-feet	100	50	50	50	50	100	100	...	...	...	...	Annual supply for wire entanglements.
Pickets, { 2-feet 6-inches	200	100	100	100	100	200	200	...	...	...	...	Annual supply for wire entanglements.
Presses, for storing instruments, paper, etc. ..	...	...	...	...	...	...	...	1	...	...	...	
Ropes, { 3-inch, 9 fathoms	4	4	4	4	4	4	...	4	...	...	4	
Ropes, { 2-inch, 18 fathoms	...	...	...	...	...	...	2	...	...	...	2	
Ropes, { tarred, 2 ,, 9 ,, ...	...	...	...	...	...	...	...	...	...	...	4	
Ropes, { tarred, 1½ ,, 6 ,, ...	...	...	...	...	...	...	...	...	...	...	10	
Ropes, { tarred, 1 ,, 3½ ,, ...	...	...	...	...	...	...	...	...	...	...	10	
Ropes, { white, 3-inch, 6 to 9 fathoms ...	...	...	...	...	...	...	4	...	...	...	...	
Ropes, { white, 3-inch, 20 to 30 ,, ...	...	...	...	...	...	...	8	...	...	...	...	
Sand ... ...yards	...	...	...	...	...	...	...	...	...	...	...	Special supply.
Straw ... ... trusses	20	10	...	...	...	...	...	...	10†	...	...	Local purchase. Annual supply.
Tanks, for water and waste for class-room (R.M.A. pattern)	...	...	...	...	...	...	...	1	...	...	...	
Supplied from War Office.												
Smooth drawing paper, "War Office, Columbia," sheets	...	...	...	...	...	...	...	30	...	...	...	
Paper, ruled, for prismatic compasses ... ,,	...	...	...	...	...	...	...	10	...	...	...	
Paper, large, coarse, called "endless paper," for maps and diagrams ... ... rolls	...	...	...	...	...	...	...	1	...	...	...	
Indian ink... ... ...cakes	...	...	...	...	...	...	...	2	...	...	...	
Boxes of moist colours, complete, with large, medium, and small brushes	...	...	...	...	...	...	...	1	...	...	...	

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APPENDIX XII.

(Referred to in Paragraph 265c.)

Lists A and B of tools and stores for instruction in military engineering for a battery of horse or field artillery.

List A.—General list of stores required by batteries of horse and field artillery for performing all the operations mentioned in Field Artillery Drill, Chapter V, Sections 1, 2, and 3.

List A.

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Equipt.
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Description of Stores.	No. allowed.	Remarks.
Woolwich Store Charge, No. 2.		
Camp Equipment.		
Mauls, G.S.	4*	
Posts, picket, 2½-ft.	20*	
Ropes, picketing, tarred	4*	
Tools, &c., for Intrenching.		
Axes, pick, heads, 6½-lb.	8*	
Axes, pick, helves, 34½-in.	8*	
Spades, N.P.	8*	
Woolwich Store Charge, No. 4.		
Carts and Wagons.		
Casks, water, 108 gallons	21	
Woolwich Store Charge, No. 12.		
Timber.		
Timber—		
Planks, bridging, service—		
10 ft. by 12 in. by 1½ in.	45	
Spars, bridging, service—		
Length. *Diameter.*		
40 feet at tip, 4 ins. to 6 ins. ..	1	
35 ,, mean, 10 ins.	1	
24 ,, ,, 5 ins.	20	
15 ,, at butt, 10 ins. ..	4	

* The stores forming the equipment of the battery under instruction will be available to make up these quantities.

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List A—*continued.*

Description of Stores.	No. allowed.	Remarks.
Woolwich Store Charge, No. 13.		
Field Artillery Carriages, &c.		
Limbers, field	1*	
Woolwich Store Charge, No. 14.		
Garrison and Siege Mountings, &c.		
Handspikes, common, 6-ft.	2	
Woolwich Store Charge, No 18.		
Side Arms, Blocks, Cordage, &c.		
Blocks, wood, snatch, 8-in.	1	
Cordage, spunyarn, hemp, 3-thread, tarred .. .. lbs.	14	To be replaced as expended.
Ropes, drag, light .. .. .. pairs	12*	
Woolwich Store Charge, No. 28.		
Pontoon Stores.		
Braces, barrel pier	36	
Woolwich Store Charge, No. 29.		
Telegraph Equipment, &c.		
Rods, measuring, common, 5-ft. ..	1	
Tapes, measuring, 50-ft.	1	
Not in Vocabulary.		
Falls, tarred, 2½-in., 30 fathoms	1	
Lashings, tarred, { 1½ in., 5 fathoms ..	40	
{ 1 ,, 3½ ,, ..	10	
Ropes, tarred, 3-in., 9 fathoms	1	
Poles, wood, limber, field	8*	
Tackles, luff, tarred, 2½-in. rope, 10 fathoms, with one double and one single 8-in. Admiralty blocks, single sets	2	
Wheels, travelling, 2nd class, metal nave field	4*	

* The stores forming the equipment of the battery under instruction will be available to make up these quantities.

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APPENDIX XII—*continued.*

LIST B.—List showing the Stores required for the several operations.

Operation.	Nature of Stores.	Stores required.	Remarks.
Steep inclines.	Axes, pick, helved, 6½ lbs.	2	
	Lashings, tarred, 1½-in., 5 fms.	8	
	Mauls, G.S.	2	
	Posts, picket, 2½-ft.	6	
	Ropes, picketing, tarred.	2	
	Spades, N.P.	2	
Passing a ravine on two spars laid horizontally. (If four spars are available 12 lashings will be required).	Axes, pick, helved, 6½ lbs.	2	
	Lashings, tarred, 1½-in., 5 fms.	4	
	Posts, picket, 2½-ft.	2	
	Ropes, drag, light	6	
	Spades, N.P.	2	
	Timber, spars, 15 ft. to 20 ft. mean diam. 10-in.	2	
Using limber to support the road bearers.	Axes, pick, helved, 6½ lbs.	2	
	Lashings, tarred, 1½-in., 5 fms.	14	
	Lashings, tarred, 1-in., 3½ fms.	10	
	Limbers, field	1	
	Posts, picket, 2½-ft.	4	
	Ropes, drag, light	4	
	Spades, N.P.	2	
	Mauls, G.S.	2	
	Timber, planks, 10 ft. by 12 in. by 1½ in.	40	
	Timber, spars, 24 ft. by 5 in. mean	14	
	Timber, spars, 15 ft. by 10 in. at butt	4	
Cask raft, for gun and limber.	Braces, barrel pier	12	
	Casks, water, 108 gallons	8	
	Lashings, tarred, 1½-in., 5 fms.	12	

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	Ropes, drag, light .. .. .. pairs	6	
	Ropes, picketing, tarred	2	
	Poles, wood, limber, field	4	
	Timber, planks, 10 ft. by 12 in. by 1½ in...	4	
	Timber, spars, 24 ft. mean diameter 5 in...	3	
	Boat hooks	2	
Cask raft for gun, limber, and team.	Braces, barrel, pier	36	
	Casks, water, 108 gallons	21	
	Lashings, tarred, 1½-in., 5 fms.	40	
	Ropes, drag, light .. .. .. pairs	2	
	Ropes, picketing, tarred	1	
	Timber, 10 ft. by 12 in. by 1½ in.	45	
	Timber, 24 ft. mean diameter 5 in... ..	20	
	Boat hooks	4	
Swinging derrick at end of jetty.	Blocks, wood, 8-in. snatch, Admiralty ..	1	
	Blocks, wood, 8-in. double, bothway ..	2	
	Cordage, tarred, spunyarn, hemp, 3-thread lbs.	7	
	Falls, tarred, 2½-in., 30 fms.	1	
	Lashings, 1½-in., 5 fms...	16	
	Axes, pick	2	
	Spades, N.P.	4	
	Wheels, field	3	
	Mauls, G.S.	4	
	Posts, picket, 2½-ft.	20	
	Ropes, drag, light .. .. .. pairs	6	
	Ropes, picketing, tarred	4	
	Ropes, tarred, 3-in., 9 fms.	1	
	Tackles, luff, complete .. .. single sets	2	
	Timber, spars, 40 ft. at tip 4 in. to 6 in.	1	
	Timber, spars, 35 ft. by 10 in. mean	1	
	Timber, spars, 15 ft. by 10 in. at butt	1	
Epaulments, gun pits, shelter trenches.	Axes, pick, helved, 6½ lbs.	1	For each man of the working party, and 10 per cent. spare.
	Spades, N.P.	1	

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APPENDIX XIII.

(Referred to in Paragraph 265c.)

Lists of Tools and Stores for Instruction in Military Engineering for a Regiment of Cavalry.

Stores for the Instruction of Cavalry Pioneers in Military Engineering.

A.O. 9 1897

Description.	Stores required.	Subject for which required.	Remarks.
Woolwich Store Charge, No. 2.			
Camp Equipment.			
Hooks, bill	3	For bivouacs and huts.	
Mallets, fascine	2	„ „	
Mauls, G.S.	1	For bridging.	
Posts, picket, 5 ft.	4	„ „	
Woolwich Store Charge, No. 4.			
Carts and Wagons.			
Carts, water tank, taps	1	For water supply.	
Casks, water, 108 gallons (with bung near bottom to fit tap)	1	„ „	
Woolwich Store Charge, No. 7.			
Tools, Artificers' and Labourers', A to J.			
Hammers, claw, 14 oz.	1	For water supply.	

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Woolwich Store Charge, No. 8.

Tools, Artificers' and Labourers', K to Z.

Saws, hand, 26-in.		1	For water supply.		
Wire, copper, No. 28 W.G.	oz.	6	For demolitions ..	Annual supply.	
Wire, iron, soft, No. 14 W.G.	lbs.	30	For obstacles	„	„

Woolwich Store Charge, No. 10.

Iron and Nails. (Part 2.)

Plant, railway, old, chairs		12	For demolitions.	
Plant, railway, old, keys, wooden		12	„	„
Plant, railway, old, rails, lengths of 6 yards		2	„	„
Plant, railway, old, sleepers		6	„	„

Woolwich Store Charge, No. 12.

Timber.

Timber—				
Planks, bridging, service, 10 ft. × 12 in. × 1½ in.		25	For bridging.	
Spars, bridging, service—				
Length. *Diameter.*				
16 feet, mean 4 inches		1	„	„
16 „ „ 3 inches or 4 inches		2	„	„
15 „ at butt 6 inches		12	„	„
15 „ mean 4 inches..		4	„	„

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APPENDIX XIII—*continued*

Description.	Stores required.	Subject for which required.	Remarks.
Spars, bridging, service—*continued.*			
Lengths. Diameter.			
14 feet, mean 8 inches or 9 inches	3	For bridging.	
12 „ „ 3 inches	4	„ „	
Deals, Baltic, yellow, 9 in. × 1 in. .. .. ft. run	40	For water supply.	
Old .. .. tons	¼	„ „	
WOOLWICH STORE CHARGE, No. 18.			
Side-arms, Blocks, Cordage, &c.			
Cordage, hawser, 3-strand, tarred, 1½-in. (in lengths of 5 fathoms) .. .. fms.	100	For bridging.	
Cordage, spun yarn, hemp, 1-thread, tarred .. .. lbs.	10	For bivouacs and huts	Annual supply.
WOOLWICH STORE CHARGE, No. 21.			
Filled Cartridges, &c.			
Guncotton, dry primers, one perforation, 1⅜ in. × 1⅜ in. lbs.	1⅛	For demolitions ..	Annual supply.
Guncotton, wet slabs, two perforations, 6⅛ × 6⅛ × 1⅜ in. (½ sab .. .. „	1	„ „ ..	„ „

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Woolwich Store Charge, No. 22.			
Fuzes, Rockets, Tubes, &c.			
Fuze, instantaneous .. .. yards	30	For demolitions ..	Annual supply.
Fuze, safety, No. 7 .. .. fms.	8	„ „ ..	„ „
Detonators, No. 8	50	„ „ ..	„ „
Woolwich Store Charge, No. 28.			
Pontoons.			
Lashings, rack	12	For bridging.	
Not in Vocabulary.			
Gravel (as required, on the spot)	..	For water supply.	
Nails, packing, French, 2-inch .. .. lbs.	3	„ „	
Poles, hutting, 2-in. to 3-in. diameter, 12-ft. lengths	50	For bivouacs and huts	Annual supply.
Pickets, wood, 2-ft. 6-in.	50	For obstacles	„ „
Sand, coarse .. .. bushels	4	For water supply ..	„ „
Straw, thatching, wheat .. .. tons	½	For bivouacs and huts	„ „

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